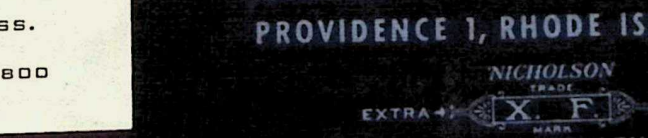
NICHOLSON

AND X. F. SWISS PATTERN FILES

CATALOG NUMBER 8

Chandler & Farquhar Co.
INCORPORATED
900 COMMONWEALTH AVE.
BOSTON 15, MASS.
TEL. LONGWOOD 7800

NICHOLSON U.S.A. (TRADE MARK)
NICHOLSON FILE COMPANY
PROVIDENCE 1, RHODE ISLAND, U. S. A.



NICHOLSON FILE COMPANY

PROVIDENCE 1, RHODE ISLAND, U. S. A.

FILES • RASPS

1949

NICHOLSON U.S.A. (TRADE MARK)

NICHOLSON TRADE MARK EXTRA X.F. FINE SWISS PATTERN FILES

CABLE ADDRESS: Nicholson Providence

CODES USED: Nicholson (order code) and all standard codes

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HISTORICAL SKETCH

THE main plant and general executive offices of the Nicholson File Company are located a short distance from the center of the city of Providence. They are of thoroughly modern construction, well lighted and ventilated, and designed especially for the manufacture of files. They are equipped with special machines and appliances, the principles of which were conceived by Mr. William T. Nicholson, the founder of the Nicholson File Company and the successful developer of the machine-file-making industry.

Mr. Nicholson's early business experience was in the machine tool business, where he developed the idea of constructing a file cutting machine. As he progressed with his new idea he became greatly enthused over the possibilities of such a machine and in order to be thoroughly informed regarding the file industry went to Europe which at that time supplied most of the files used in America. There he studied not only the manufacture and use of files but also such kindred industries as the manufacture and heat treatment of steel, and he returned only when he felt sufficiently informed on the subject to establish his own file factory.

In 1864 the Nicholson File Company was incorporated and its first plant erected immediately at Providence. It was hoped at the time that a daily production of 300 dozen files might be reached, but business was not easily obtained. Several similar enterprises were attempting to cut files by machine, and the resulting products were of very inferior quality and were being offered by makers of hand cut files as convincing examples of the failure of file cutting by machinery.

The superior quality of the new Nicholson Files gradually became an acknowledged fact, the antagonism towards machine cut files diminished, and the output of the works slowly increased until over three hundred dozen files a day were being manufactured. Nicholson Files in a few years had become the standard in America, and hand cut files were a thing of the past.

In 1870 the first of a series of very complete catalogs was published, and in 1878 Mr. Nicholson wrote a treatise on files and their proper selection and use, which as "File Filosophy" is now in the first printing of its sixteenth edition.

Mr. Nicholson, at the time of his death in October 1893, had seen the output of his works increased to over 1500 dozen files daily, and he had established an organization which has since developed the Company until it now operates four large plants in the United States and Canada which turn out many thousands of dozens of files a day.

Colonel Samuel M. Nicholson, son of the founder, devoted his entire business life to the manufacture of files and managed the Company

from 1893 to the time of his death in 1939. Under his leadership the Nicholson File Company became the largest company in the world manufacturing exclusively Files and Rasps. Whereas the founder was a pioneer in the science of cutting files by machinery, Colonel Nicholson was a pioneer exporter of files and as a result Nicholson Files are to be found in every market of the world.

Mr. Paul C. Nicholson, grandson of the founder, has been active in the management since 1911. Upon the death of Colonel Samuel M. Nicholson he was elected President and General Manager.

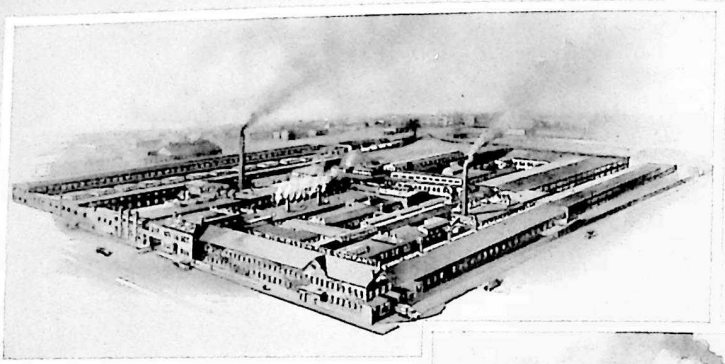
Mr. Paul C. Nicholson, Jr. joined Nicholson File Company in 1941, after his graduation from Yale University, thereby becoming the fourth generation to choose file manufacturing as a career. He returned to the Company in 1945 after a period of war service and was elected Secretary in January, 1948.

The principal factory of the Company is located at Providence and large branch factories are at Philadelphia, Pa., Anderson, Indiana, and Port Hope, Ontario. At the Providence factory are manufactured the full lines of Nicholson, Black Diamond and McCaffrey Brands of Files and Rasps, a complete line of Nicholson X.F. Swiss Pattern Files and various associated products such as File Handles, Holders, and Cleaners. Nicholson, Black Diamond and McCaffrey Files and Rasps and Nicholson X.F. Swiss Pattern Files represent the very highest quality product of this Company. The manufacture of Nicholson X.F. Swiss Pattern Files was first started in 1893 and is carried on in a thoroughly modern plant equipped with the finest tools and machinery to assure the production of Swiss Pattern Files of a quality that will give entire satisfaction to the exacting requirements of jewelers, watch makers and fine tool makers.

The Philadelphia and Anderson plants continue to manufacture brands well known throughout the country for over fifty years: American, Arcade, Eagle, Great Western, Kearney & Foot, McClellan and J. Barton Smith. At the Port Hope, Ontario plant, Black Diamond Files are manufactured for the Canadian trade and also the well known brands of the Philadelphia and Anderson plants. Nicholson X.F. Swiss Pattern Files are made in Providence but sold to Canadian customers through the Port Hope factory.

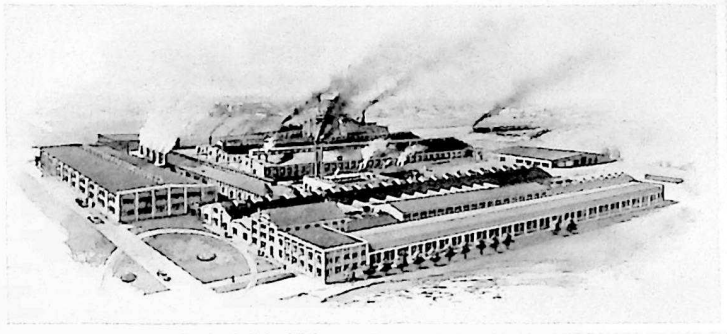
WILLIAM T. NICHOLSON, Founder

NICHOLSON
FILE COMPANY

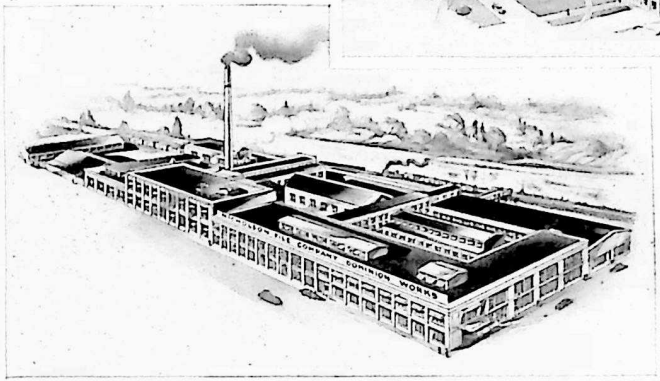


PLANT AT PROVIDENCE, R. I.
U. S. A.

PLANT AT PHILADELPHIA, PA.
U. S. A.



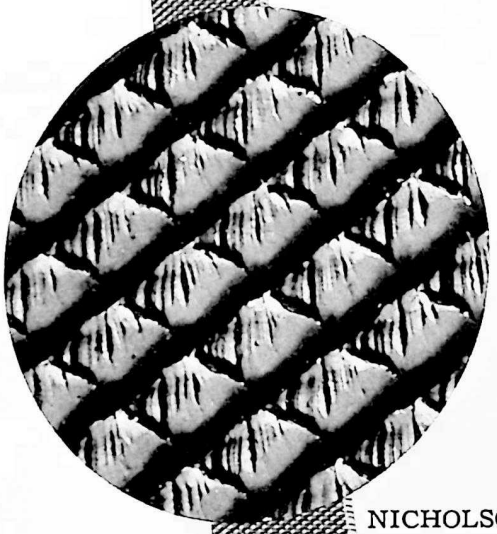
PLANT AT ANDERSON, IND.
U. S. A.



PLANT AT PORT HOPE, ONT.
CANADA

PATENTED

For Faster Filing
on Soft Irons and Steels



For rapid filing of soft irons and steels, we recommend our Patented Tooth Construction known as "Controlled Serrations." This means that each tooth point is subdivided into extra cutting edges which permit the file to take hold of the stock from the first stroke and to remove more metal than ordinary files.

An added feature of this Tooth Construction is the elimination of the tendency of old style files to skid or slide from the line of work.

NICHOLSON PATENTED FILE TEETH
Cut Faster, Last Longer
Do Not Ride Off the Line of Work

GENERAL INFORMATION

Files and Rasps are made of high carbon steel of special analysis which is made under careful supervision and subjected to the most rigid inspections and tests. Skilled and careful attention is constantly given to this most important requisite of the highest quality product. The Nicholson File Company possesses facilities for manufacturing Files and Rasps which are unequaled by any other file factory in the world. Its extensive buildings were designed especially for the manufacture of Files and Rasps. Special machinery and methods of manufacture, which are the result of constant researches and inventions throughout the life of the Company, insure a completed product that is unexcelled.

Each process of manufacture is given highly skilled supervision and critical inspection while the work is being performed, resulting in a uniformity of product and a high excellence of quality.

Files and Rasps have three distinguishing features:

First—THEIR LENGTH, which is always measured exclusive of the tang.

Second—THEIR KIND OR NAME, which has reference to the shape or style.

Third—THEIR CUT, which has reference not only to the character but also to the coarseness of the teeth.

This catalogue is designed to be of service to all those who distribute or use Files and Rasps. It is not our intention to illustrate in full detail our entire product but rather to present sufficient illustrations of various types of Files and Rasps, with definite information concerning each, to make the book instructive and easily understood.

For convenience of reference we have grouped our product, all illustrated in this catalogue, into several classes as indicated below:

First—THE SAW FILE GROUP, comprising the kinds of files whose particular use is in sharpening or filing saws of various descriptions. This includes Mill Files, Triangular or Three Cornered Saw Files and Saw Files of special sections.

Second—THE MACHINISTS' FILES, comprising those kinds generally used in machine shop practice, including the various styles of Flat, Hand, Half Round, Round, Square, Pillar, Warding, Knife, etc.

Third—SPECIAL PURPOSE FILES for Aluminum, Brass, Bronze, Lead, Stainless Steel, etc.; and for foundry work and lathe filing.

Fourth—RASPS OF VARIOUS TYPES. This group comprises Cabinet Rasps, Shoe Rasps, Wood Rasps, Horse Rasps.

Fifth—Milled Curved Tooth Files.

Sixth—A complete line of X.F. Swiss Pattern Files and Rifflers.

Seventh—Coil Files.

Eighth—Tools and Specialties.

MILL FILES

Mill Files are used principally for filing mill or circular saws, also planer knives and mowing machine knives; for lathe work, draw-filing and for finishing compositions of brass and bronze.

Tapered slightly in thickness and in width for about one-third of their length.

Usually made with two square edges. Single cut.

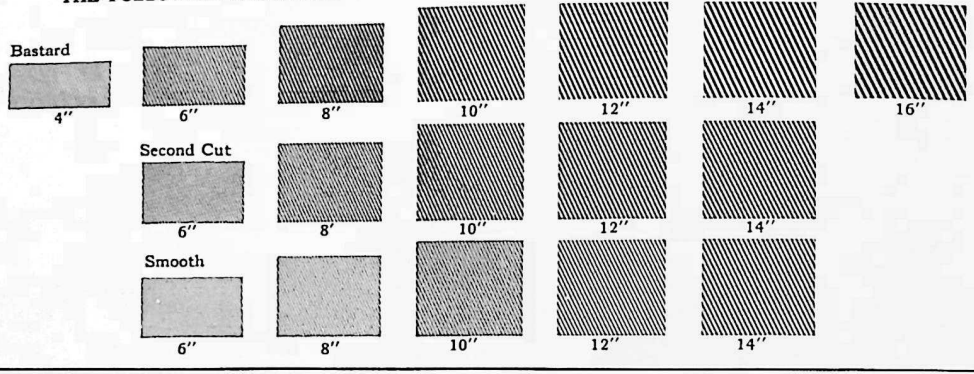
Made in Bastard cut in lengths of 4, 6, 7, 8, 10, 12, 14 and 16 inches; in Second Cut in lengths of 6, 8, 10, 12 and 14 inches, and in Smooth cut in lengths of 6, 8, 10, 12 and 14 inches.

Mill Bastard

APPROXIMATE SIZES OF FINISHED FILES

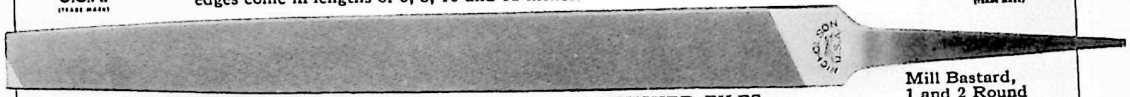
4″	6″	8″	10″	12″	14″	16″
7/16″ x 5/64″	5/8″ x 1/8″	13/16″ x 5/32″	1″ x 3/16″	1 3/16″ x 7/32″	1 3/8″ x 1/4″	1 17/32″ x 9/32″

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF MILL FILES



MILL FILES—Continued

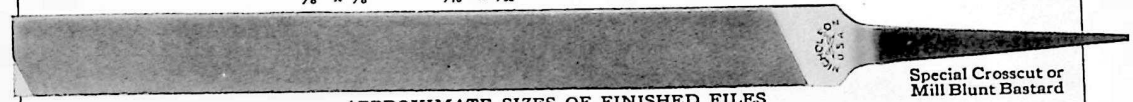
Mill Files are also made with one and two round edges for filing the gullet or space between the saw teeth. These files made in Bastard cut only. Mill Files with one or two round edges come in lengths of 6, 8, 10 and 12 inches.



Mill Bastard, 1 and 2 Round Edges

APPROXIMATE SIZES OF FINISHED FILES

6″	8″	10″	12″
5/8″ x 1/8″	13/16″ x 5/32″	1″ x 3/16″	13/16″ x 7/32″



Special Crosscut or Mill Blunt Bastard

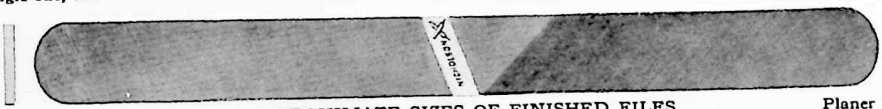
APPROXIMATE SIZES OF FINISHED FILES

6″	7″	8″	10″	12″
5/8″ x 1/8″	45/64″ x 1/8″	13/16″ x 5/32″	1″ x 3/16″	13/16″ x 7/32″

The file shown above illustrates the shape and general appearance of both the Mill Blunt Bastard and the Special Crosscut File. Each type is single cut and is parallel in width and thickness. However, the Mill Blunt Bastard is a general purpose Mill File, used wherever the Blunt Type is preferred to a file which tapers in width and thickness. Made in lengths of 6, 7, 8, 10 and 12 inches. The 6″ size, for example, is often used for filing bucksaws.
The Special Crosscut File, however, has teeth which are specially sharpened for use on Crosscut Saws and works with a smoothness which is evident from the first stroke. The tang is painted orange. Each file is cellophane wrapped. Packed one dozen in orange colored box. Special Crosscut made in 6, 7, 8, and 10 inch lengths only.

PLANER KNIFE FILES

Used for sharpening planer knives and for other similar uses. Made in lengths of 8 and 10 inches. One half of each side is single cut, while the other half is double cut. These files have safe edges.



Planer Knife Files

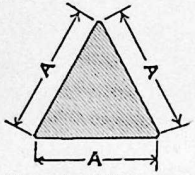
APPROXIMATE SIZES OF FINISHED FILES

8″	10″
49/64″ x 9/64″	63/64″ x 3/16″

HANDSAW AND BANDSAW FILES

TRIANGULAR OR THREE CORNERED—60-DEGREE ANGLES

Made for filing all types of saws having 60° angle teeth.
Handsaw files are usually single cut and have edges that are set and cut for filing the gullet between the saw teeth.
Bandsaw files are single cut and have rounded edges. Some Bandsaws have well rounded gullets between their teeth and these files are preferred for sharpening this type of saw. Bandsaw files are made of the same sections of steel as Handsaw files but because the edges are rounded, the finished files are slightly smaller in width.



Dimension "A" is equal for all sides or widths

GENERAL RULE FOR THE SELECTION OF TRIANGULAR SAW FILES

Select a file the width or flat side of which is equal to a little more than the combined length of the face and back of the saw tooth.

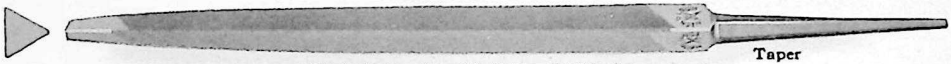
APPROXIMATE SIZES OF HANDSAW AND BANDSAW FILES

KIND	4"	4½"	5"	5½"	6"	7"	8"	9"	10"	12"
Handsaw Blunt Slim	....	....	....	....	3/8"	....	....	....	....	....
Handsaw Blunt Extra Slim	....	....	....	1/4"	9/32"	11/32"	....	....	....	....
Bandsaw Blunt	....	....	....	....	1/2"	....	5/8"	....	....	....
Bandsaw Blunt Slim	....	....	....	....	3/8"	....	1/2"	....	....	....
Taper	....	....	....	....	1/2"	9/16"	5/8"	....	3/4"	....
Slim Taper	1/4"	1/4"	5/16"	....	3/8"	13/32"	1/2"	....	19/32"	23/32"
Extra Slim Taper	3/16"	7/32"	7/32"	1/4"	9/32"	11/32"	13/32"	....	....	....
Double Extra Slim Taper	5/32"	11/64"	3/16"	....	7/32"	1/4"	5/16"	....	....	....
Double Ender	....	....	....	....	3/16"	7/32"	9/32"	11/32"	3/8"	....
Weed's Special Files	....	....	15/64"	15/64"	9/32"	....	....	....	.	....

For those who prefer Double Cut, we will stock in Grade A Brands only 6" and 7" Slim, Extra Slim and Double Extra Slim at the same price as Single Cut.

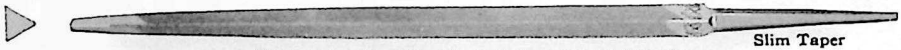
SAW FILES—Continued

TRIANGULAR OR THREE CORNERED—60-DEGREE ANGLES



Taper

Made in lengths of 6, 7, 8 and 10 inches.

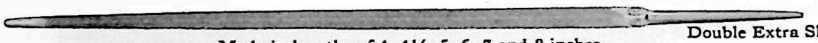


Slim Taper

Made in lengths of 4, 4½, 5, 6, 7, 8, 10 and 12 inches.

Extra Slim Taper

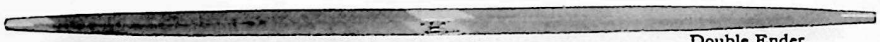
Made in lengths of 4, 4½, 5, 5½, 6, 7 and 8 inches.



Double Extra Slim Taper

Made in lengths of 4, 4½, 5, 6, 7 and 8 inches.

8″ x ¼″ and 8″ x 3/16″ Double Extra Slim Taper Files can also be supplied.



Double Ender

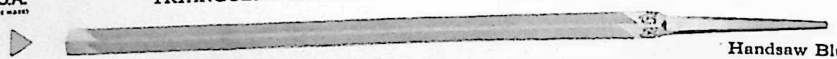
Made in lengths of 6, 7, 8, 9 and 10 inches.

Double Ender, with Handle

Double Ender Files are supplied with the handles as shown, six handles to each dozen files.

SAW FILES—Continued

TRIANGULAR OR THREE CORNERED—60-DEGREE ANGLES



Handsaw Blunt Extra Slim

Handsaw Blunt Slim and Extra Slim are often preferred for sharpening handsaws. Also used in machines for sharpening saws. Handsaw Blunt Slim made in 6" length. Blunt Extra Slim made in lengths of 5½, 6 and 7 inches.

HANDSAW BLUNT SLIM
6" x 3/8"

HANDSAW BLUNT EXTRA SLIM
5½" x ¼" 6" x 9/32" 7" x 11/32"

Bandsaw Blunt Slim

Bandsaw Blunt and Blunt Slim Files are designed for sharpening Bandsaws with well rounded gullets. Single cut.

BANDSAW BLUNT
6" x ½" 8" x 5/8"

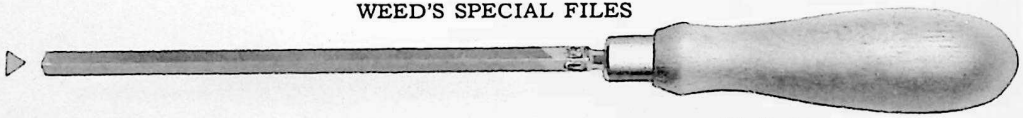
BANDSAW BLUNT SLIM
6" x 3/8" 8" x ½"

Special Narrow Bandsaw File No. 64

Corners are well rounded but have a smaller radius than Bandsaw Blunt and Bandsaw Blunt Slim Files. Made only in Grade A.

No. 63—6" x 7/16" Bandsaw Taper
No. 64—6" x 11/32" Bandsaw Taper Slim
No. 73—7" x 15/32" Bandsaw Taper
No. 74—7" x 13/32" Bandsaw Taper Slim

WEED'S SPECIAL FILES



Weed's Special File with Handle

Handsaw Blunt Extra Slim Files are also made with round tangs for insertion in handles. These are called Weed's Special Files. Made in lengths of 5, 5½ and 6 inches. Packed one dozen files and four handles to a box. Full information on request.

MISCELLANEOUS SAW FILES

Crosscut

APPROXIMATE SIZES OF FINISHED FILES

8″	10″
1 1/16″ x 9/32″	1 3/16″ x 23/64″

Single cut—Made in lengths of 8 and 10 inches. Same number of teeth per inch as Mill Bastard Files of the same lengths. Used for sharpening crosscut saws of the Great American style—the rounded backs being used to deepen the rounded gullets of the saw teeth.

Cantsaw

APPROXIMATE SIZES OF FINISHED FILES

6″	8″	10″
17/32″ x 13/64″	1 1/16″ x 17/64″	1 3/16″ x 5/16″

Single cut—Made in lengths of 6, 8 and 10 inches. These files are used for sharpening Crosscut Saws with "M" teeth, for circular saws and for saw teeth with less than 60° angle. They have the same number of teeth per inch as Mill Bastard Files of equivalent lengths. Single Cut. Edges are set and cut. Cantsaw Files are regularly supplied with cut backs, but may be purchased with safe or uncut backs at regular list prices, if orders definitely specify that such types are wanted.

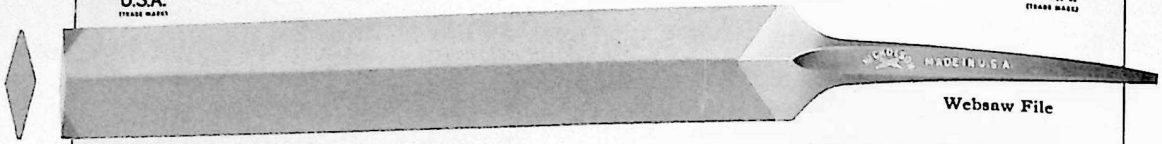
Pitsaw

APPROXIMATE SIZES OF FINISHED FILES

6″	8″
7/16″ x 7/32″	9/16″ x 9/32″

Single cut—Made in lengths of 6 and 8 inches. Used for sharpening pit or frame saws. Cut slightly coarser than Mill Bastard Files of the same lengths.

MISCELLANEOUS SAW FILES—Continued

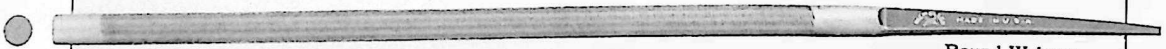


Websaw File

Websaw Files are for filing pulpwood or Websaws. Because of their shape, they are specially suited for filing saws having cutting teeth of less than 60° angle or wherever it is desired to file each bevel of the tooth separately. Made only in Grade A.

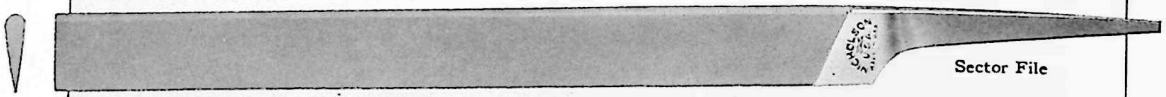
APPROXIMATE SIZES OF FINISHED FILES

5"	5½"	6"
25/32" x ¼"	27/32" x ¼"	29/32" x 17/64"



Round Websaw Gulleting File

This file is designed for filing the rounded gullets between the raker and cutting teeth of Websaws to keep the gullets at their original depth. Single cut. Uniform cross section throughout its length. Made in 6-inch length only, diameter 7/32", and in Grade A only.



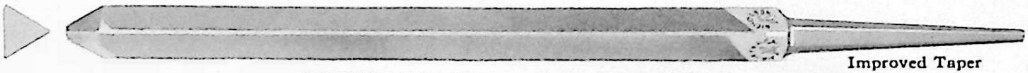
Sector File

Sector Files are made specially for filing the Bushman type saw. The round back is designed for deepening the gullets between the sections of cutting teeth while the sides are for filing the teeth themselves. When necessary, the narrow edge is for deepening the gullets between the individual cutting teeth. Single cut on sides, back and edge. The width of the narrow edge is 1/32". Made in one length and in Grade A only. Dimensions 6-inch—9/16" x 11/64".

MISCELLANEOUS SAW FILES—Continued

IMPROVED TAPER FILES

Improved Taper Files are parallel in shape and have a specially ground point. They are designed only for use in filing machines. Single cut on sides and edges. Regularly available in two sizes only.



Improved Taper

APPROXIMATE SIZES OF FINISHED FILES

6″ x 5/8″ 6″ x 3/4″

SKIP-TOOTH BANDSAW FILES

Skip-tooth Bandsaw Files are Special Six-Sided Files for filing Skip-tooth Bandsaws used in butcher shops and meat markets. They are of the proper shape to drop into the original gullet and file the face of the tooth, the bottom of the gullet and the back of the next tooth at the same time. Made only in Grade A.

Skip-Tooth Bandsaw Blunt

APPROXIMATE SIZES OF FINISHED FILES

5″ 6″
7/12″ 7/12″

Skip-Tooth Bandsaw Diamond Point

APPROXIMATE SIZES OF FINISHED FILES

5″ 6″
7/12″ 7/12″

MISCELLANEOUS SAW FILES—Continued

PRUNING SAW FILES

Pruning Saw Files are especially designed for use on Needle Point Pruning Saws. Made on diamond shaped blanks, 6" long. Single cut on two faces of one side and on both edges. Other side uncut. Second cut only. Made only in Grade A.

Pruning Saw File

APPROXIMATE SIZES OF FINISHED FILES
6"
$^{51}/_{64}$" x $^{15}/_{64}$"

WESTERN CUT FILES

Western Cut Files are manufactured for use by those who wish faster filing without so much regard for finish. The shapes and sizes available are identical with those of regular Mill and Taper Saw Files. The teeth of Western Cut Files are coarser than those of Mill Bastard or regular Taper—for example:

Regular 6" Slim Taper —54 teeth per inch
Western Cut 6" Slim Taper—48 teeth per inch

Otherwise the teeth of regular Mill and Taper Saw Files and corresponding Western Cut Files are identical.

TAPER FILES—TYPE B

Type B Taper Files are designed for rapid filing of Buck Saws. They are available in the same shapes and sizes as regular Taper Saw Files. They are coarser than regular Saw Files—for example:

Regular 6" Slim Taper—54 teeth per inch
Type B 6" Slim Taper—48 teeth per inch

In addition, Type B Taper Files are given a special sharpening.

CHAIN SAW FILES

Nicholson File Company's line of Chain Saw Files, made in styles for use on all types of chains, have been developed for fast cutting, long life and good finish. The correct combination of tooth structure, shear angle and fineness of cut on each type of file provides the user with a selection unsurpassed for performance and quality. Each file, of course, has our unqualified guarantee behind it.

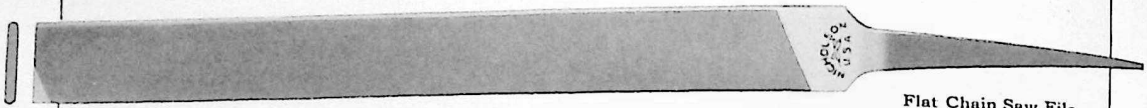
ROUND CHAIN SAW FILES

Round Chain Saw File

We have developed a new line of three files for chain saws requiring round type files. Code number, words "Chain Saw" and Brand are stamped on each Round Chain Saw File for easy identification. Please include code number in placing your order through your distributor. Blunt in shape. Made in Grade A only. Supplied as follows:

Length	Diameter	Code No.	Wgt. Per Doz.	No. In Box
8"	1/4"	84	1 lb., 8 oz.	12
8"	5/16"	85	2 lbs., 5 oz.	12
8"	3/8"	86	3 lbs.	12

FLAT CHAIN SAW FILES



Flat Chain Saw File

These files have been developed for plain cutter-and-raker type chain saw teeth. Supplied only with two round edges. Blunt in shape. Made in Grade A only.

Length	Approx. Size	Wgt. Per Doz.	No. in Box
7"—2 rd. edges	$^{45}/_{64}$" x $^{1}/_{8}$"	2 lbs.	12
8"—2 rd. edges	$^{13}/_{16}$" x $^{5}/_{32}$"	2 lbs., 14 oz.	12
8"—2 rd. edges (Narrow)	$^{5}/_{8}$" x $^{1}/_{8}$"	1 lb., 8 oz.	12

SQUARE CHAIN SAW FILES

Square File for Chain Saws

We recommend the Square File because it permits two cutting surfaces of the chain saw teeth to be filed simultaneously. Blunt in shape. Made in Grade A only.

Length	Approx. Size	Wgt. Per Doz.	No. in Box
6"	$^{7}/_{32}$"	14 oz.	12

FLAT FILES

Flat Files are used by machinists, machinery builders, ship and engine builders, repair men and others who require rapid removal of metal. They are rectangular in cross section and taper slightly towards point in both width and thickness. Double cut on both sides, single cut on both edges. Made in Bastard, Second Cut and Smooth in lengths of 4, 6, 8, 10, 12, 14 and 16 inches. In Bastard cut in 18".

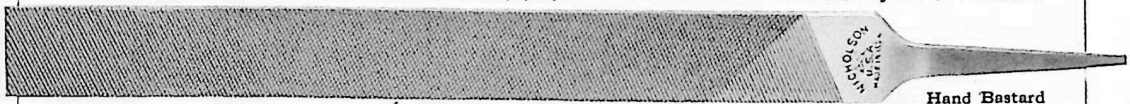
Flat Bastard

APPROXIMATE SIZES OF FINISHED FILES

4"	6"	8"	10"	12"	14"	16"	18"
7/16" x 7/64"	5/8" x 5/32"	13/16" x 7/32"	1" x 1/4"	13/16" x 17/64"	1 3/8" x 19/64"	1 17/32" x 11/32"	1 23/32" x 23/64"

HAND FILES

Widely used by machinists and machinery builders for filing flat surfaces. Hand Files are of rectangular cross-section and are parallel in width and taper slightly in thickness. They are cut on both flat sides but on one edge only. Made in Bastard, Second Cut and Smooth cuts in lengths of 6, 8, 10, 12 and 14 inches and in Bastard cut only in the 16-inch size.



Hand Bastard

APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"	14"	16"
5/8" x 5/32"	13/16" x 7/32"	1" x 1/4"	13/16" x 17/64"	1 3/8" x 19/64"	1 17/32" x 11/32"

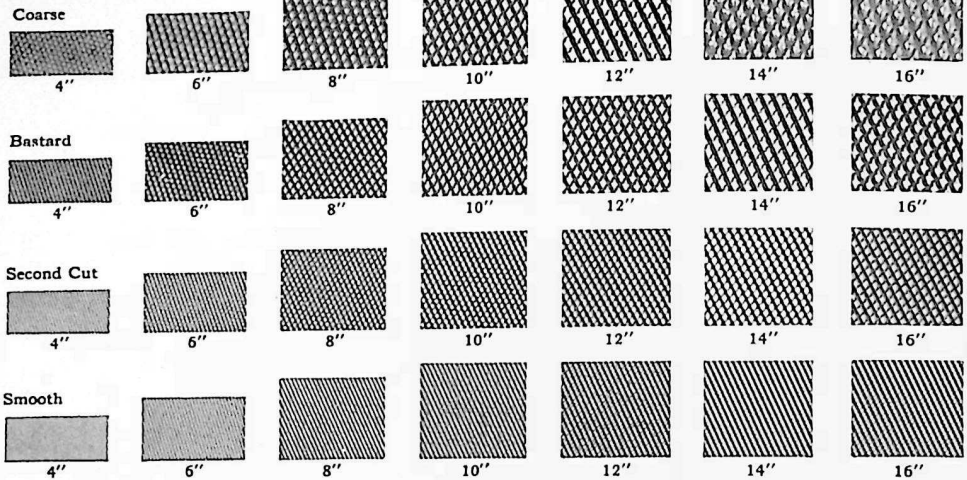
Note. For illustrations showing Coarseness of Hand Files see page 20.

NICHOLSON U.S.A.

FLAT AND HAND FILES

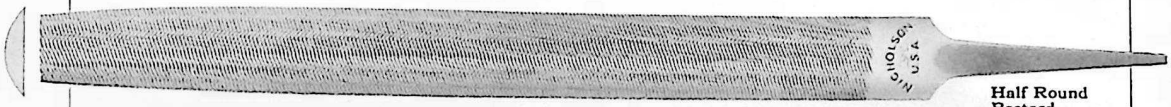
NICHOLSON U.S.A.

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF FLAT AND HAND FILES



HALF ROUND FILES

Generally used by machinists, engineers and repair men and because of the section being rounded on one side and flat on the other are extremely useful files.
The cuts on the flat side are graded in coarseness like Flat and Hand Files shown on the preceding page. The cuts on the backs are graded in coarseness like the illustrations shown on the following page.
Half Round Files are made in Bastard, Second Cut and Smooth cuts, and in lengths of 4, 6, 8, 10, 12, 14 and 16 inches.



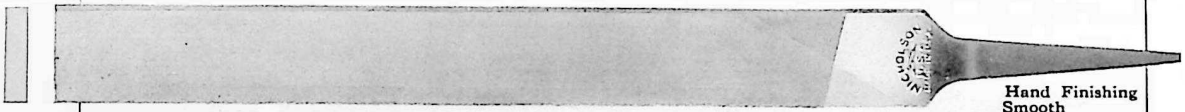
Half Round Bastard

APPROXIMATE SIZES OF FINISHED FILES

4″	6″	8″	10″	12″	14″	16″
7/16″ x 1/8″	5/8″ x 5/32″	3/4″ x 7/32″	15/16″ x 9/32″	1 1/8″ x 11/32″	1 5/16″ x 13/32″	1 1/2″ x 29/64″

HAND FINISHING FILES

Hand Finishing Files are double cut and are used when a very smooth finish is desired. They are rectangular in section and are parallel in width. Tapered slightly in thickness. Made with two safe edges in 12 and 14-inch lengths in Smooth cut only.



Hand Finishing Smooth

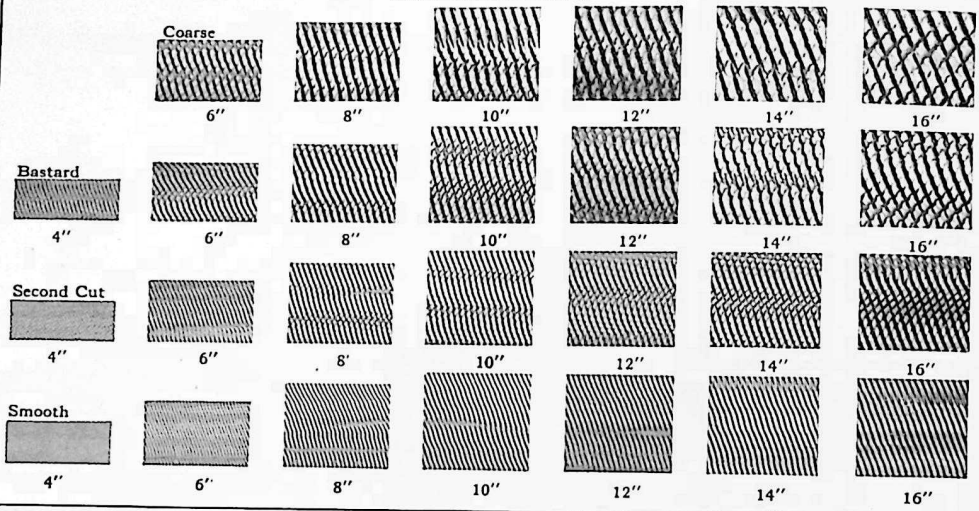
APPROXIMATE SIZES OF FINISHED FILES

12″	14″
1 3/16″ x 17/64″	1 3/8″ x 19/64″

HALF ROUND FILES

The backs of all Half Round Bastard Files are double cut. The backs of all Half Round Second Cut Files longer than 6 inches are double cut, the 4 and 6-inch files are single cut. The backs of all Half Round Smooth Files are single cut. The flat sides of all Half Round Files are double cut.

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF HALF ROUND FILES



ROUND FILES

Their principal use is to file or enlarge circular openings or to file concave surfaces. Made in Bastard cut in lengths of 4, 6, 7, 8, 10, 12, 14 and 16 inches. In Second Cut and Smooth cuts in lengths of 4, 6, 8, 10, 12 and 14 inches.

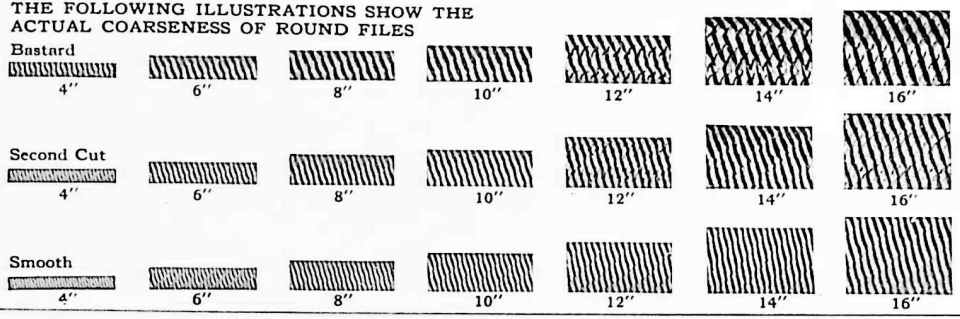
Round Files are double cut, in Bastard cut from 6" up; in Second Cut from 12". The rest are single cut.

Round Bastard (tapered)

APPROXIMATE SIZES OF FINISHED FILES

4"	6"	7"	8"	10"	12"	14"	16"
3/16"	1/4"	17/64"	5/16"	3/8"	1/2"	5/8"	3/4"

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF ROUND FILES



SQUARE FILES

Used principally for filing keyways, slots and general surface filing. Double cut on all four sides. Made in Bastard cut in lengths of 4, 6, 8, 10, 12, 14, 16 and 18 inches. In Second Cut and Smooth cuts in lengths of 4, 6, 8, 10, 12 and 14 inches.

Square Bastard

APPROXIMATE SIZES OF FINISHED FILES

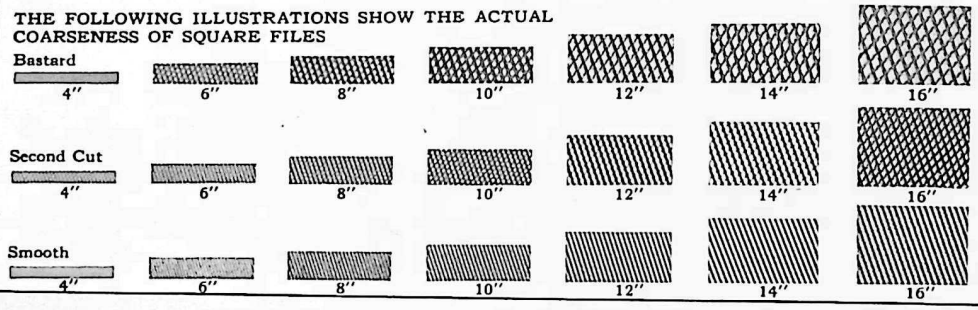
4″	6″	8″	10″	12″	14″	16″	18″
3/16″	1/4″	5/16″	3/8″	1/2″	5/8″	3/4″	7/8″

Square Blunt Bastard

APPROXIMATE SIZES OF FINISHED FILES

8″	10″	12″	14″
5/16″	3/8″	1/2″	5/8″

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF SQUARE FILES



PILLAR FILES

Are of rectangular section (Proportions being 2 to 1). Principally used by machinists and repair men for filing slots and keyways. They are like the Hand File in general shape, and like the Hand File have one edge "safe," or uncut.
Made in Bastard, Second Cut and Smooth cuts in lengths of 6, 8 and 10 inches and in Bastard cut only in 12-inch length.
The grading of cuts according to coarseness is the same as the Square File.

Pillar Bastard

APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"
7/16" x 7/32"	9/16" x 9/32"	11/16" x 11/32"	13/16" x 13/32"

THREE SQUARE FILES

Are of triangular section like Tapers but are double cut, with the corners left sharp. For general use by machinists for filing internal angles and clearing out corners; also for filing taps and cutters in the annealed state.
Made in Bastard, Second Cut and Smooth cuts, in lengths of 6, 8, 10 and 12 inches.
The grading of cuts according to coarseness is the same as the Square File.

Three Square Bastard

APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"
1/2"	5/8"	3/4"	27/32"

WARDING FILES

As their name indicates, their principal use is by locksmiths for filing the ward notches in keys. Also suited for filing in narrow spaces where other files would be too thick. Made in lengths of 4, 6, 8 and 10 inches in Bastard, Second Cut and Smooth cuts. All double cut.

Warding Bastard

APPROXIMATE SIZES OF FINISHED FILES

4″	6″	8″	10″
7/16″ x 1/15″	5/8″ x 5/64″	25/32″ x 3/32″	15/16″ x 1/8″

KNIFE FILES

Are of knife blade section. Used principally by tool and die makers on work having acute angles. Made in lengths of 4, 6, 8 and 10 inches, in Bastard, Second Cut and Smooth cuts. All double cut on sides. Backs uncut.

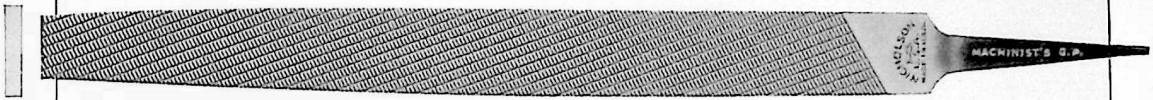
Knife Bastard

APPROXIMATE SIZES OF FINISHED FILES

4″	6″	8″	10″
15/32″ x 7/64″	1 1/16″ x 5/32″	7/8″ x 3/16″	1 1/16″ x 1/4″

MACHINIST'S G.P. (GENERAL PURPOSE) FILES

These files are single cut for reasonably smooth finish; and serrated diagonally on relatively coarse teeth for fast stock removal and capacity to stand rough usage. Made in one degree of coarseness only. Edges cut. Made in Grade A only.



Machinist's G.P. (General Purpose) Files

APPROXIMATE SIZES OF FINISHED FILES

8″	10″	12″	14″
13/16″ x 7/32″	1″ x 1/4″	13/16″ x 17/64″	1 3/8″ x 19/64″

DOCTOR BLADE FILES

14″ Doctor Blade File

Designed for filing Doctor Blades in the cloth printing industry. They are made 14 inches in length on Hand Blunt blanks without tang. They are double cut and are made in two degrees of coarseness, Coarse cut and Smooth cut. Made only in Grade A.

APPROXIMATE SIZE OF FINISHED FILE

14″
1 3/8″ x 19/64″

FOUNDRY FILES

Developed by us for snagging castings in Foundries and now widely used for removing fins, sprues and other hard projections from castings, for filing narrow and sharp corners of dies and for many other kinds of rough filing. Teeth made extra strong and rugged to stand severe usage.

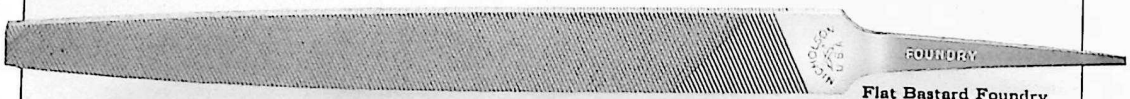
Made regularly in Bastard cuts, sizes 8" to 14", in Flat and Half Round Shapes. Each file has "Foundry" stamped on it for identification.

APPROXIMATE SIZES OF FINISHED FLAT FOUNDRY FILES

8"	10"	12"	14"
13/16" x 7/32"	1" x 1/4"	1 3/16" x 17/64"	1 3/8" x 19/64"

APPROXIMATE SIZES OF FINISHED HALF ROUND FOUNDRY FILES

8"	10"	12"	14"
3/4" x 7/32"	15/16" x 9/32"	1 1/8" x 11/32"	1 5/16" x 13/32"



Flat Bastard Foundry

FILES FOR STAINLESS STEEL

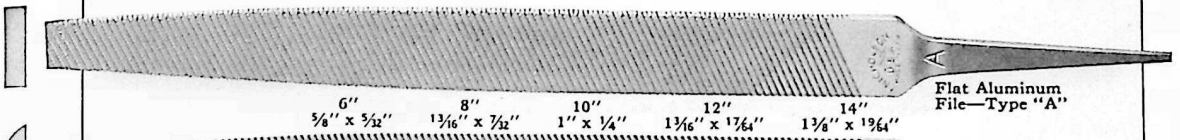
Nicholson File Company now makes files especially for use on Stainless Steel. These files are made in all types and sizes as our regular purpose files, both in American Pattern and Swiss Pattern. The construction of the teeth on files for Stainless Steel is designed to overcome the abrasive action of these steels on any cutting edge. To order, specify type, size and cut and add "for Stainless Steel" to your specification. Regular list prices. Words "Stainless Steel" are stamped on the tang for identification. Made in Grade A only.

FILES FOR PLASTICS

Because the uses of plastics are rapidly growing and changing, we prefer to have a job description from the customer before recommending specific files. Our files can be supplied in all regular shapes and sizes for use on Plastics, specially sharpened as the material to be filed indicates. Inquiries are invited. Made in Grade A only.

FLAT AND HALF ROUND ALUMINUM FILES—TYPE "A"

Best suited for filing aluminum or aluminum alloy castings. These files cut rapidly without clogging. All are of one coarseness of cut, regardless of the shape or size of the file. A smooth finish can easily be obtained by filing with a shearing cut toward the left. Half Rounds in 6, 8 and 10 inch only have fine points. Made only in Grade A.



Flat Aluminum File—Type "A"

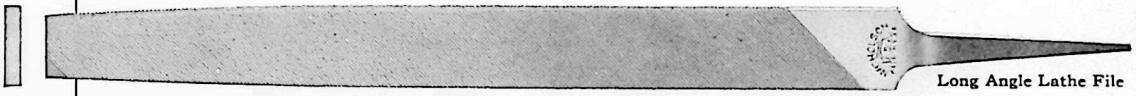
6"	8"	10"	12"	14"
5/8" x 5/32"	13/16" x 7/32"	1" x 1/4"	1 3/16" x 17/64"	1 3/8" x 19/64"

Half Round Aluminum File—Type "A"

6"	8"	10"	12"	14"
5/8" x 5/32"	3/4" x 7/32"	15/16" x 9/32"	1 1/8" x 11/32"	15/16" x 13/32"

LONG ANGLE LATHE FILES

Specially designed for lathe filing and for bench filing on aluminum and compositions of brass, bronze and similar metals. Long Angle Lathe Files are made on Flat File blanks. Cut on sides only with both edges safe or uncut. The Flat Long Angle Lathe Files are made in lengths of 10, 12 and 14 inches.



Long Angle Lathe File

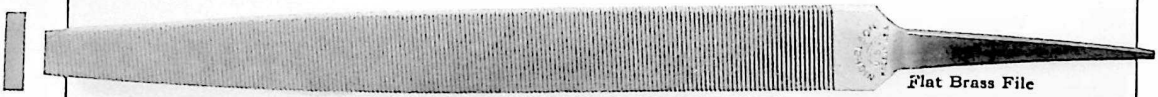
APPROXIMATE SIZES OF FINISHED FILES

10"	12"	14"
1" x 1/4"	1 3/16" x 17/64"	1 3/8" x 19/64"

FLAT AND HALF ROUND BRASS FILES

The filing of brass, copper, bronze and similar metals requires a special type of file. While these metals are softer than steel they are also more malleable and are very ductile and tough. These Brass Files are very sharp and should be used with as little pressure as is needed to keep them cutting. Made only in Grade A.

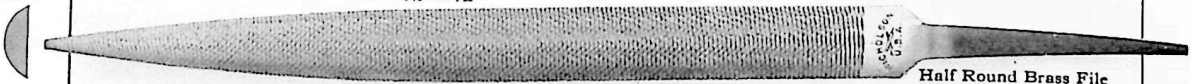
Made in Flat and Half Round sections in lengths of 8, 10 and 12 inches. Half Rounds in 8 and 10 inch only have small points.



Flat Brass File

APPROXIMATE SIZES OF FINISHED FILES

8″	10″	12″
13/16″ x 7/32″	1″ x 1/4″	13/16″ x 17/64″



Half Round Brass File

APPROXIMATE SIZES OF FINISHED FILES

8″	10″	12″
1/4″ x 7/32″	15/16″ x 9/32″	1 1/8″ x 11/32″

SHEAR TOOTH FILES

Shear Tooth Files are for use on aluminum, copper, brass and similar metals. May also be used on cast iron and steel. They remove material rapidly and leave a very smooth finish. Are single cut with a long angle and are furnished in Flat and Half Round sections in lengths of 6, 8, 10, 12 and 14 inches. Made only in Grade A.

Flat Shear Tooth File

APPROXIMATE SIZES OF FINISHED SHEAR TOOTH FILES

	6″	8″	10″	12″	14″
FLAT	—5/8″ x 5/32″	13/16″ x 7/32″	1″ x 1/4″	13/16″ x 17/64″	1 3/8″ x 19/64″
HALF ROUND	—5/8″ x 5/32″	3/4″ x 7/32″	15/16″ x 9/32″	1 1/8″ x 11/32″	1 5/16″ x 13/32″

FLAT LEAD FLOAT FILES

Flat Lead Float Files are especially designed for use on lead, babbitt and other soft metals. They are made in lengths of 8, 10 and 12 inches.

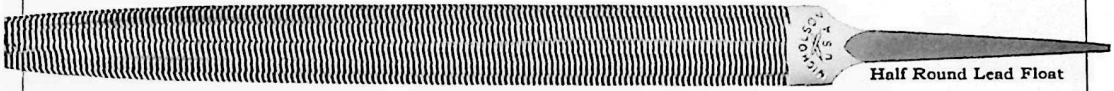
Flat Lead Float

APPROXIMATE SIZES OF FINISHED FILES

8″	10″	12″
13/16″ x 7/12″	1″ x 1/4″	13/16″ x 17/64″

HALF ROUND LEAD FLOAT FILES

Half Round Lead Float Files are made for use on lead, babbitt and other soft metals. They are made in lengths of 8, 10 and 12 inches.



Half Round Lead Float

APPROXIMATE SIZES OF FINISHED FILES

8″	10″	12″
3/4″ x 7/12″	15/16″ x 9/12″	1 1/8″ x 11/12″

BODIFILES

A line of Bodifiles is available for those who work on automobile bodies, particularly in blending solder with sheet steel. Full particulars given on request.

DIE CAST FILES

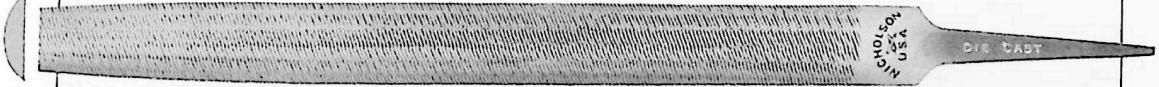
Die Cast Files for finishing die castings of aluminum-alloy and similar metals are made with extra strong teeth on sides, edges and corners to resist shelling off and breaking out. Teeth are designed to eliminate as far as possible the tendency of aluminum-alloy and similar metals to clog the file teeth. Made only in Grade A.

Made in Flat and Half Round sections in lengths of 6, 8, 10, 12 and 14 inches.

Mill Bastard Die Cast

APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"	14"
5/8" x 1/8"	13/16" x 5/32"	1" x 3/16"	1 3/16" x 7/32"	1 3/8" x 1/4"



Half Round Die Cast-Smooth Cut

APPROXIMATE SIZES OF FINISHED FILES

6"	8"	10"	12"	14"
5/8" x 5/32"	3/4" x 7/32"	15/16" x 9/32"	1 1/8" x 11/32"	1 5/16" x 13/32"

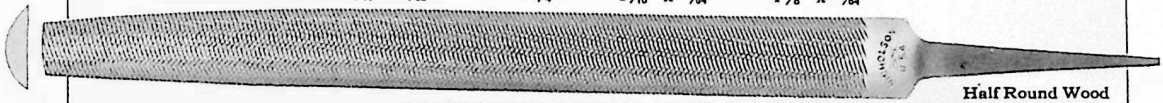
WOOD FILES

Wood Files are made in the same sections and sizes as Regular Flat and Half Round Files. However, they have especially coarse teeth, fitting them for use on wood.

Flat Wood

APPROXIMATE SIZES OF FINISHED FILES

8″	10″	12″	14″
13/16″ x 7/32″	1″ x 1/4″	13/16″ x 17/64″	1 3/8″ x 19/64″



Half Round Wood

APPROXIMATE SIZES OF FINISHED FILES

8″	10″	12″	14″
1/4″ x 7/32″	15/16″ x 9/32″	1 1/8″ x 11/32″	15/16″ x 13/32″

AUGER BIT FILES

Auger Bit Files are designed to restore the original sharpness to the cutting edges of bits. One end of file has its edges left safe or uncut while the other end has safe sides. This construction prevents damage to surfaces adjacent to those being filed. Made in 7-inch length only and in Kearney & Foot Brand.

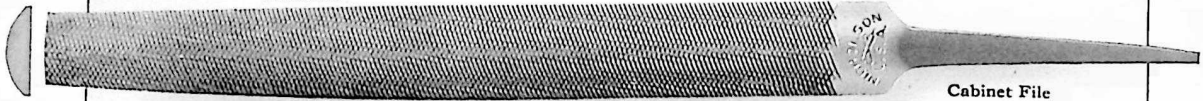
Auger Bit

APPROXIMATE SIZES OF FINISHED FILES

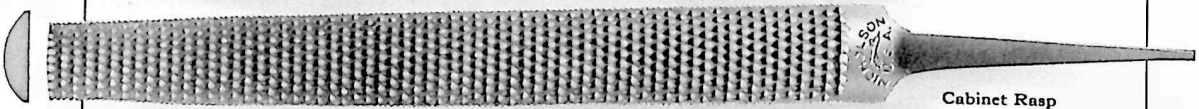
7″
11/32″ x 1/16″

CABINET FILES AND RASPS

Used by cabinet makers and woodworkers. The curved side of these rasps is similar to that of Half Round Rasps, but of larger radius.
Cabinet Files are made in one coarseness of cut only, in lengths of 8, 10 and 12 inches.
Cabinet Rasps are made in both Second Cut and Smooth cuts in lengths of 6, 8, 10, 12 and 14 inches.



Cabinet File

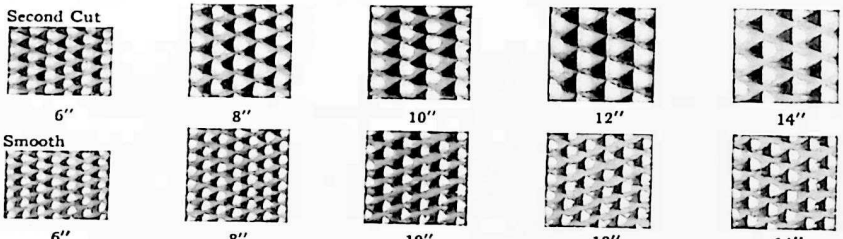


Cabinet Rasp

APPROXIMATE SIZES OF FINISHED FILES AND RASPS

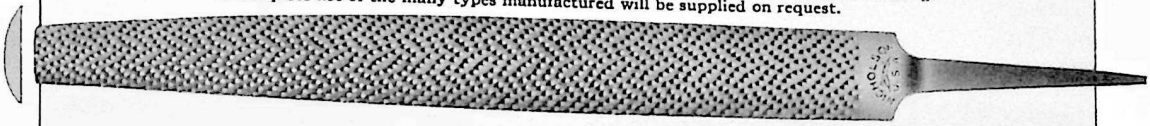
6″	8″	10″	12″	14″
$2\frac{3}{32}$″ x $\frac{3}{16}$″	$1\frac{5}{16}$″ x $\frac{1}{4}$″	$1\frac{1}{8}$″ x $\frac{9}{32}$″	$1\frac{5}{16}$″ x $1\frac{1}{32}$″	$1\frac{9}{16}$″ x $1\frac{3}{32}$″

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF CAPINET RASPS



LAST AND PATTERN MAKERS' CABINET RASPS

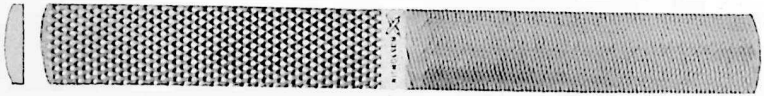
Used by shoe last and pattern makers and for all wood filing when a smooth finish is desired such as in the manufacture of wooden golf club heads.
Pattern Makers' Rasps have cut edges while Last Makers' Rasps and Files have safe edges.
All these Rasps and Files have numbers on the tangs for convenience when re-ordering.
A complete list of the many types manufactured will be supplied on request.



Last Makers' Cabinet Rasp—Bastard

SHOE RASPS

Made in half round section as illustrated. Half of each surface file cut, the other half having rasp teeth. Made in lengths of 8, 9 and 10 inches.



Half Round Shoe Rasp

APPROXIMATE SIZES OF FINISHED RASPS		
8″	9″	10″
7/8″ x 7/32″	31/32″ x 1/4″	1 1/16″ x 9/32″

ROUND WOOD RASPS AND ROUND CABINET RASPS

Used for the same purpose as Regular Wood and Cabinet Rasps in places for which their shape makes them particularly effective. Each is made in one cut only and in lengths of 6, 8, 10, 12 and 14 inches. Made from steel of the same size as Round Files.

Round Wood Rasp

Round Cabinet Rasp

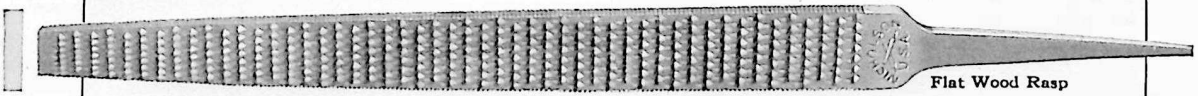
APPROXIMATE SIZES OF FINISHED RASPS				
6″	8″	10″	12″	14″
1/4″	5/16″	3/8″	1/2″	5/8″

WOOD RASPS—FLAT AND HALF ROUND SECTION

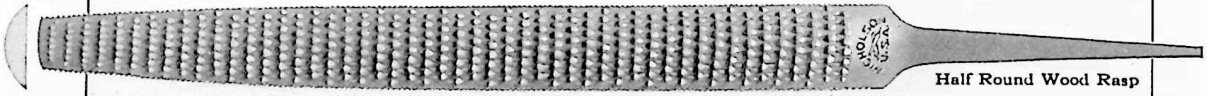
Are used by woodworkers, wheelwrights, plumbers, etc. Made in Bastard and Smooth cuts. Made in Flat sections in lengths of 8, 10, 12, 14 and 16 inches and in Half Round sections in lengths of 6, 8, 10, 12, 14 and 16 inches.
Coarseness of teeth is the same for Flat and Half Round Rasps of the same size.

APPROXIMATE SIZES OF FINISHED RASPS

	6″	8″	10″	12″	14″	16″
Flat	. . . . .	13/16″ x 9/32″	1″ x 1 1/32″	1 3/16″ x 1 3/32″	1 3/8″ x 1 5/32″	1 17/32″ x 1 7/32″
Half Round	5/8″ x 15/64″	13/16″ x 5/16″	1″ x 1 3/32″	1 3/16″ x 1 5/32″	1 3/8″ x 1 7/32″	1 9/16″ x 1 37/64″

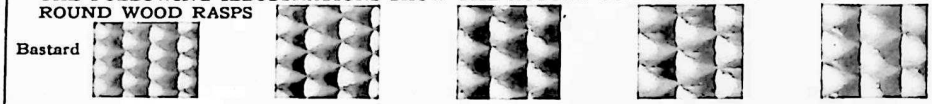


Flat Wood Rasp



Half Round Wood Rasp

THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF FLAT AND HALF ROUND WOOD RASPS



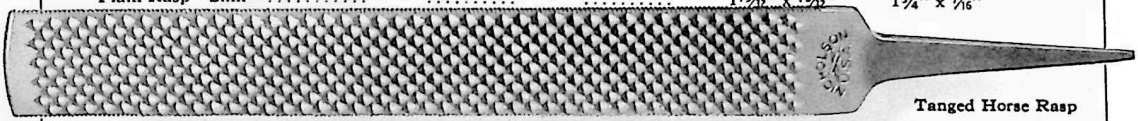
HORSE RASPS

Horse Rasps are made in two different types, Plain Rasps, which are double-ended, and Tanged Rasps. Both types have Rasp teeth on one side and file teeth on the other.
Plain Rasps are made in Regular and Slim patterns.
Tanged Rasps are made in Regular and Thin patterns.
Tanged Platers Rasps, which are thinner and finer than the Regular Tanged Horse Rasps, can be supplied in 14" length in Extra Thin and Double Extra Thin.

Plain Horse Rasp

APPROXIMATE SIZES OF FINISHED RASPS

	12"	14"	16"	18"	20"
Plain Rasp	$1\frac{9}{32}$" x $1\frac{1}{32}$"	$1\frac{17}{32}$" x $\frac{3}{8}$"	$1\frac{23}{32}$" x $\frac{7}{16}$"	.....	.....
Plain Rasp—Slim	.....	.....	.....	$1\frac{19}{32}$" x $1\frac{3}{32}$"	$1\frac{3}{4}$" x $\frac{7}{16}$"



Tanged Horse Rasp

APPROXIMATE SIZES OF FINISHED RASPS

	12"	14"	16"
Tanged Rasp	$1\frac{17}{32}$" x $\frac{3}{8}$"	$1\frac{23}{32}$" x $\frac{7}{16}$"	$1\frac{7}{8}$" x $1\frac{5}{32}$"
Tanged Rasp—Thin	.....	$1\frac{23}{32}$" x $2\frac{3}{64}$"	.....

THE NICHOLSON SUPER-SHEAR

A MILLED CURVED TOOTH FILE THAT SMOOTHS AS IT ROUGHS

The Super-Shear is a "double purpose" Milled Curved Tooth File for use on the flat and convex surfaces of aluminum, brass, babbitt, bronze, copper, magnesium, cast iron and soft metal alloys. Made in one degree of coarseness only in lengths of 8, 10, 12 and 14-inch. The Curved teeth of the Nicholson Super-Shear are cut in an arc that is "off center" in relation to the axis of the file. This permits the teeth to begin with wide gullets and a right angle—for fast cutting. They become shorter and closer together as they terminate in a long, shearing angle—for producing the smoothing effect. Thus, when a surface is filed with an overlapping stroke in a right-toward-left working direction, the Nicholson Super-Shear "smooths out its tracks as it goes." Practically two files in one! Fast cutting and smooth finishing in one operation. Easy control of file for accurate work. Easy clearance that saves time and keeps the file efficient. Made in Standard, Fine and Smooth cuts.

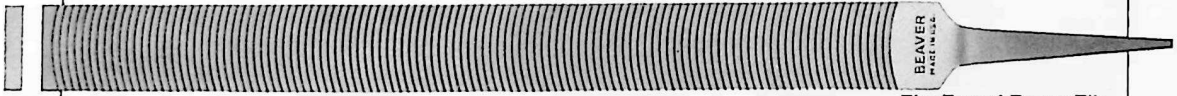
Super-Shear

APPROXIMATE SIZES OF THE SUPER-SHEAR

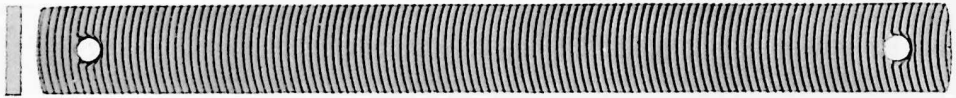
8"	10"	12"	14"
$13/16$" x $3/16$"	1" x $7/32$"	$1\ 1/8$" x $9/32$"	$1\ 23/64$" x $5/16$"

BEAVER CURVED TOOTH FILES

Widely used by the Automobile Manufacturing and Repairing trade on aluminum and sheet steel. Also used on soft metals such as brass and babbitt and often on iron and steel. Because of their curved teeth they free themselves readily of chips. Made in 10, 12 and 14-inch lengths and in three types. Flat Tanged, Half Round Tanged and Flexible. The 12-inch Flexible have countersunk holes approximately 11 inches between centers and the 14-inch have countersunk holes approximately 13 inches between centers.



Flat Tanged Beaver File



Flexible Beaver File

NICHOLSON SUPERIOR MILLED TOOTH FILE

Manufactured by Nicholson File Company for those who require top quality in Milled Curved Tooth Files. In three cuts: Standard, Fine and Smooth. Three commonly used types illustrated below. Complete catalog sheet on request.

Flexible Standard

Especially designed for the Auto Body Building and Repair trade. Being very flexible, they are largely used for fender work and for work on curved surfaces of sheet steel and other metals. Made to fit all standard holders.

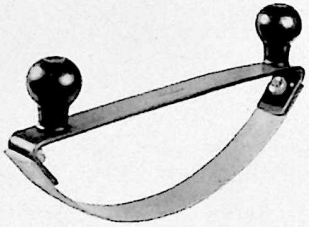
Flat Standard (Rigid)

Used on many kinds of metals because of their fast-cutting and self-clearing teeth.

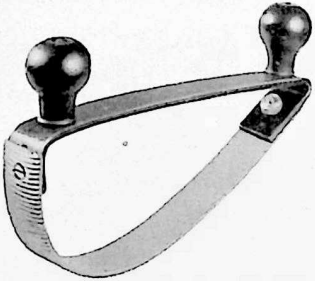
Half Round Standard (Rigid)

Used mostly on bearings and flat and concave surfaces of soft metals.

NICHOLSON SUPERIOR HOLDERS



HALF CIRCLE FILE AND
HOLDER No. 22

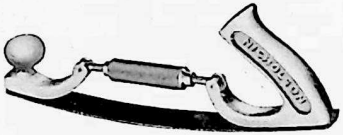


SPECIAL CURVED FILE AND
HOLDER No. 23

Half Circle and Special Curved Superior Files are for use on fenders and in fender wells. They are not flexible and have teeth on one side only. Made in 14" length and in Standard Cut.

STRAIGHT FILE HOLDER No. 24

For use with either 12" or 14" Files.



ADJUSTABLE FLEXIBLE FILE
HOLDER No. 25

Can be used with 12" or 14" Files and is easily adjusted for curving the file either outward or inward.

NICHOLSON X.F. SWISS PATTERN FILES

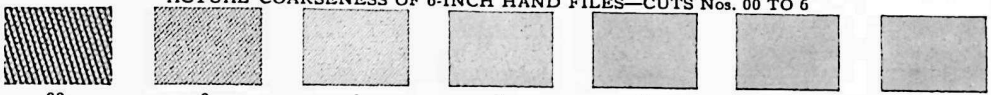
Nicholson X.F. Swiss Pattern Files are made to more exacting measurements than American Pattern Files. Although some cross sections of both types are similar, the shapes differ. The points of X.F. Swiss Pattern Files are smaller and the tapered files have longer tapers than those of American Pattern Files. Nicholson X.F. Swiss Pattern Files are made in much finer cuts, which vary from No. 00, which is the coarsest to No. 6, the finest.

Our X.F. Swiss Pattern Files are primarily finishing tools, used for removing burrs left over from previous finishing operations, rounding out slots and cleaning out square corners, smoothing up small parts and in fact, doing the final finishing on all sorts of delicate and intricate pieces. The smaller points of these files make them useful for enlarging small holes and shaping and finishing very narrow grooves, slots, notches and keyways.

X.F. Swiss Pattern Files are used by tool and die makers, delicate instrument parts finishers, jewelers, model makers and home craftsmen. In short, everyone who does superfine precision filing will have many uses for X.F. Swiss Pattern Files.

Special care is required in the manufacture of X.F. Swiss Pattern Files. They are made in a separate division of our Providence Factory by a staff specially trained for their work. Anyone who buys X.F. Swiss Pattern Files is assured of highest quality under Nicholson's guarantee of "Twelve Perfect Files in Every Dozen."

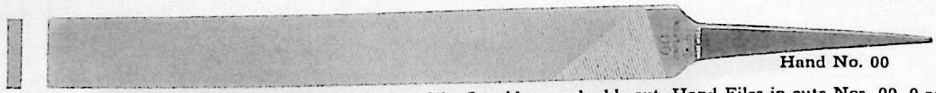
ACTUAL COARSENESS OF 6-INCH HAND FILES—CUTS Nos. 00 TO 6



NICHOLSON TRADE MARK EXTRA X.F. FINE
SWISS PATTERN FILES

HAND FILES

NICHOLSON TRADE MARK EXTRA X.F. FINE
SWISS PATTERN FILES



Hand No. 00

Hand Files are parallel in width and taper in thickness. The flat sides are double cut. Hand Files in cuts Nos. 00, 0 and 2 are single cut on one edge, the other edge being safe. Hand Files in cuts Nos. 3, 4 and 6 have two safe edges. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 3 cut not made in 12" length. No. 6 cut in 6" and 8" lengths only.

APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
7/16" x 3/32"	17/32" x 1/8"	3/4" x 5/32"	29/32" x 3/16"	1 3/32" x 7/32"	1 3/16" x 17/64"

PILLAR FILES

Pillar No. 6

Pillar Files are similar in shape to Hand Files but about two-thirds as wide. Double cut on the two flat sides only, the edges being safe.

Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 3 cut not made in 10" and 12" lengths. No. 6 cut made in 4" length only.

APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
19/64" x 3/32"	23/64" x 7/64"	31/64" x 5/32"	39/64" x 7/32"	47/64" x 15/64"	53/64" x 17/64"

In addition to the regular widths, Pillar Files are furnished in the following widths in minimum quantities of one dozen of the same kind at no advance over regular prices:

8"	10"	12"
3/4" x 3/16"	5/8" x 7/32"	1" x 17/64"

NICHOLSON TRADE MARK EXTRA X.F. FINE SWISS PATTERN FILES

PILLAR NARROW FILES

NICHOLSON TRADE MARK EXTRA X.F. FINE SWISS PATTERN FILES

Pillar Narrow No. 2

Pillar Narrow Files are similar to Pillar Files, but narrower for the same length. Double cut on the two flat sides only, the edges being safe. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 3 cut not made in 10" and 12" lengths. No. 6 cut made in 3", 4" and 6" lengths only.

APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
7/32" x 5/64"	17/64" x 7/64"	23/64" x 5/32"	15/32" x 3/16"	9/16" x 1/4"	41/64" x 5/16"

In addition to the regular widths, Pillar Narrow Files are furnished in the following widths in minimum quantities of one dozen of the same kind at no advance over regular prices:

6"	8"	10"
9/32" x 1/8"	3/8" x 3/16"	1/2" x 15/64"
5/16" x 5/32"	.....	.....

PILLAR EXTRA NARROW FILES

Pillar Extra Narrow No. 4

Pillar Extra Narrow Files similar to Pillar and Pillar Narrow Files but narrower than the Pillar Narrow for their length. Cut on the two flat sides only, the edges being safe. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 3 cut not made in 10" or 12" lengths. No. 6 cut made in 3", 4" and 6" lengths only.

APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"	12"
9/64" x 3/32"	3/16" x 7/64"	1/4" x 5/32"	5/16" x 3/16"	3/8" x 7/32"	7/16" x 1/4"

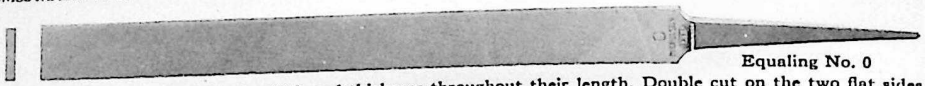
In addition to the regular widths, Pillar Extra Narrow Files are furnished in the following widths in minimum quantities of one dozen of the same kind at no advance over regular prices:

4"	6"	8"
1/8" x 3/32"	1/8" x 3/32"	3/16" x 1/8"
.....	3/16" x 3/32"	1/4" x 1/8"

NICHOLSON TRADE EXTRA X F MARK FINE
SWISS PATTERN FILES

EQUALING FILES

NICHOLSON TRADE EXTRA X F MARK FINE
SWISS PATTERN FILES



Equaling No. 0

Equaling Files are parallel in both width and thickness throughout their length. Double cut on the two flat sides and single cut on both edges.
Made in lengths of 3, 4, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2 and 4.

APPROXIMATE SIZES OF FINISHED FILES

3″	4″	6″	8″
5/16″ x 1/16″	13/32″ x 5/64″	19/32″ x 7/64″	3/4″ x 9/64″

Equaling Files may be obtained in minimum quantities of one dozen without extra charge in the following B & S gauges:

3″	4″	6″	8″
18 B & S (.040″) and 20 B & S (.032″) gauge	16 B & S (.051″), 18 B & S (.040″) and 20 B & S (.032″) gauge	10 B & S (.102″), 12 B & S (.081″) and 14 B & S (.064″) gauge	10 B & S (.102″) gauge

SQUARE FILES

Square No. 2

Square Files are square in section and taper on all four sides to a fine point. Double cut on all four sides. One safe side when so ordered. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4. No. 3 cut not made in 10″ or 12″ lengths.

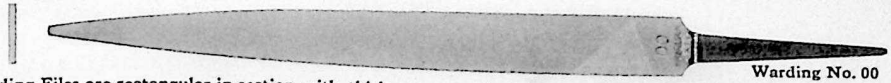
APPROXIMATE WIDTH OF FINISHED FILES

3″	4″	6″	8″	10″	12″
5/64″	1/8″	3/16″	1/4″	11/32″	7/16″

NICHOLSON TRADE X.F. MARK EXTRA FINE
SWISS PATTERN FILES

WARDING FILES

NICHOLSON TRADE X.F. MARK EXTRA FINE
SWISS PATTERN FILES



Warding No. 00

Warding Files are rectangular in section with thickness approximately one-eighth of their width, tapering to a point in width and tapering slightly in thickness. Double cut on the two flat sides and single cut on both edges.
Made in lengths of 3, 4, 6, 8 and 10 inches and in Cuts Nos. 00, 0, 1, 2 and 4.

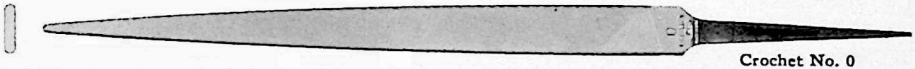
APPROXIMATE SIZES OF FINISHED FILES

3″	4″	6″	8″	10″
3/8″ x 3/64″	7/16″ x 3/64″	19/32″ x 5/64″	3/4″ x 3/32″	15/16″ x 7/64″

Warding Files may be obtained in minimum quantities of one dozen without extra charge in the following B & S gauges:

3″	4″	6″	8″	10″
B&S gauge	B&S gauge	B&S gauge	B&S gauge	B&S gauge
18 (.040″), 20 (.032″) 22 (.025″)	14 (.064″), 16 (.051″) 18 (.040″), 20 (.032″)	11 (.091″), 13 (.072″), 14 (.064″) 16 (.051″), 18 (.040″), 20 (.032″)	10 (.102″)	8 (.128″)

CROCHET FILES



Crochet No. 0

Crochet Files taper to a point in both width and thickness and are made with both edges well rounded. Double cut on the flat sides and on both edges.
Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2 and 4.

APPROXIMATE SIZES OF FINISHED FILES

3″	4″	6″	8″	10″
1/4″ x 5/64″	3/8″ x 3/32″	1/2″ x 1/8″	5/8″ x 5/32″	3/4″ x 3/16″

NICHOLSON TRADE MARK EXTRA X. F. FINE
SWISS PATTERN FILES

KNIFE FILES

NICHOLSON TRADE MARK EXTRA X. F. FINE
SWISS PATTERN FILES

Knife No. 2

Knife Files are made from steel that is knife shaped, the included angle of the sharp edge being 10°. They taper in width and thickness to the point. Double cut on both flat sides and single cut on both edges.
Made in lengths of 3, 4, 5, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4. Nos. 1 and 3 cuts not made in 3″ or 5″ lengths.

APPROXIMATE WIDTH OF FINISHED FILES

3″	4″	5″	6″	8″
3/8″	15/32″	9/16″	11/16″	7/8″

BARRETTE FILES

Barrette No. 0

Barrette Files are flat on one side, the back being beveled at both edges as indicated by the cross section, the included angle being 33°. Double cut on the wide flat side only, the back and the beveled edges being safe.
Made in lengths of 3, 4, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2 and 4.

APPROXIMATE WIDTH OF FINISHED FILES

3″	4″	6″	8″
11/32″	1/2″	21/32″	7/8″

NICHOLSON TRADE MARK EXTRA X.F. FINE
SWISS PATTERN FILES

THREE SQUARE FILES

NICHOLSON TRADE MARK EXTRA X.F. FINE
SWISS PATTERN FILES

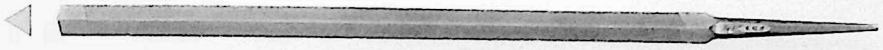
Three Square No. 0

Three Square Files are triangular in section with angles of 60°, taper to a point and have sharp corners. Double cut on the three sides and single cut on the edges.
Made in lengths of 3, 4, 5, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4. No. 3 cut not made in 5" or 10" lengths.

APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	5"	6"	8"	10"
5/32"	1/4"	5/16"	3/8"	1/2"	5/8"

METAL SAW FILES



Metal Saw No. 2

Metal Saw Files are the same in section as Three Square Files but are parallel throughout their length. Double cut on the three sides and single cut on the edges.
Made in lengths of 3, 4, 5, 6 and 8 inches and in cuts Nos. 0, 2 and 4.

APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	5"	6"	8"
5/32"	1/4"	5/16"	3/8"	1/2"

NICHOLSON TRADE MARK
EXTRA X.F. FINE
SWISS PATTERN FILES

SLITTING FILES

NICHOLSON TRADE MARK
EXTRA X.F. FINE
SWISS PATTERN FILES

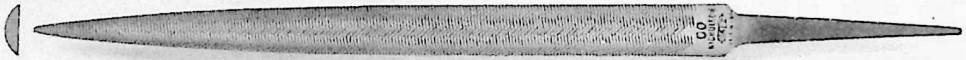
Slitting No. 0

Slitting Files are made of double angular section, the included angle between the sides being approximately 15°. Double cut on the four sides and single cut on the two sharp edges.
Made in lengths of 4 and 6 inches and in cuts Nos. 00, 0 and 2.

APPROXIMATE WIDTH OF FINISHED FILES

4″	6″
7/16″	19/32″

HALF ROUND RING FILES



Half Round Ring No. 00

For use by jewelers, particularly ring manufacturers, Half Round Ring Files are 6 inches in length and are made in cuts Nos. 00, 0, 1, 2 and 4.
The dimensions of the finished files are 29/64″ x 7/64″.

NICHOLSON TRADE MARK X.F. EXTRA FINE
SWISS PATTERN FILES

HALF ROUND FILES

NICHOLSON TRADE MARK X.F. EXTRA FINE
SWISS PATTERN FILES

Half Round No. 00

Half Round Files taper in width and thickness to the point. Double cut on both flat and half round sides. Made in lengths of 3, 4, 5, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 3 cut not made in 12" lengths. No. 6 cut made in 6" only.

APPROXIMATE SIZES OF FINISHED FILES

3"	4"	5"	6"	8"	10"	12"
19/64" x 3/32"	3/8" x 7/64"	29/64" x 7/64"	33/64" x 9/64"	45/64" x 11/64"	15/16" x 17/64"	17/64" x 19/64"

CROSSING FILES

Crossing No. 4

Crossing Files are made of double circular section, one side having the same radius as the Half Round File and the other side having a flatter curve or larger radius. They taper to a point in both width and thickness. Double cut on both sides. Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 6 cut not made in 8" or 10" lengths.

APPROXIMATE SIZES OF FINISHED FILES

3"	4"	6"	8"	10"
5/16" x 3/32"	7/16" x 7/64"	5/8" x 3/16"	13/16" x 15/64"	61/64" x 5/16"

NICHOLSON TRADE EXTRA X.F. MARK FINE
SWISS PATTERN FILES

ROUND FILES

NICHOLSON TRADE EXTRA X.F. MARK FINE
SWISS PATTERN FILES

Round No. 2

Round Files taper throughout their length to a fine point. Double cut.
Made in lengths of 3, 4, 5, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 6 cut not made in 8", 10" or 12" lengths.

APPROXIMATE WIDTH OF FINISHED FILES

3"	4"	5"	6"	8"	10"	12"
5/64"	1/8"	5/32"	3/16"	1/4"	21/64"	27/64"

ROUND STRAIGHT FILES

Round Straight No. 0

Round Straight Files are made of the same sizes of steel as Round Files but are parallel throughout their length. Double cut.
Made in lengths of 4, 5, 6 and 8 inches and in cuts Nos. 00, 0, 2 and 4.

APPROXIMATE WIDTH OF FINISHED FILES

4"	5"	6"	8"
1/8"	5/32"	3/16"	1/4"

The diameters given above are regular, and are furnished unless the customer specifies otherwise. Round Straight Files are also furnished in the following diameters, in minimum quantities of one dozen of the same size and cut, at no advance over regular prices: 4"—1/16", 3/32"; 5"—3/32", 1/8", 3/16"; 6"—1/8", 5/32", 7/32", 1/4", 3/8"; 8"—3/16", 7/32", 5/16", 3/8".

NICHOLSON TRADE EXTRA X.F. FINE HARD SWISS PATTERN FILES

PIPPIN FILES

NICHOLSON TRADE EXTRA X.F. FINE HARD SWISS PATTERN FILES

Pippin No. 0

Pippin Files have rounded backs tapering to a sharp edge and they taper in both width and thickness to a point. Double cut. These files are sometimes called "Apple Seed" files.

Made in lengths of 4, 6 and 8 inches and in cuts Nos. 00, 0, 1 and 2.

APPROXIMATE SIZES OF FINISHED FILES

4″	6″	8″
9/32″ x 1/8″	3/8″ x 5/32″	1/2″ x 3/16″

PILLAR TESTING FILES

6-inch Pillar Testing File No. 0

Testing Files are made especially to be used as standards for testing the hardness of tempered tools or metals. Double cut with a special form and style of tooth particularly adapted to the very severe work for which these files are designed.

Made in Pillar section 6 inches in length, cuts Nos. 0 and 1; and in Pillar Narrow section 8 inches in length, cuts Nos. 0 and 1.

NICHOLSON TRADE MARK EXTRA X F FINE
SWISS PATTERN FILES

CORRUGATING FILES

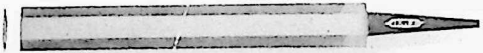
NICHOLSON TRADE MARK EXTRA X F FINE
SWISS PATTERN FILES

6-inch Hand Corrugating File No. 4

Corrugating files are made for corrugating the edges of Barbers' Shears and other edged tools.
6" Hand Corrugating files, also called Straight Rowing files, are made in cuts Nos. 0, 2 and 4. They are designed to corrugate the blade when stroked straight across or, in other words, at right angles to the blade.
6" Corrugating LH and RH types are made in cuts 0, 1, 2, 3 and 4. The "LH" and "RH" indicate these files are for left hand or right hand serrating, whichever is preferred.

SCREW HEAD FILES

Screw Head Plain



Screw Head Tanged

Screw Head Files are made for enlarging and clearing out the slots in the heads of screws. Used principally by watch makers and jewelers. They are made in two styles, Plain and Tanged.
Made in one size only, 3 inches long and in one cut.

NICHOLSON TRADE MARK X.F. EXTRA FINE
SWISS PATTERN FILES

JOINT FILES

NICHOLSON TRADE MARK X.F. EXTRA FINE
SWISS PATTERN FILES

Round Edge Joint Thick No. 0

Square Edge Joint Thick No. 2

Joint Files are parallel in width and thickness and are made with round or square edges, thick or thin. Double cut on the edges only, the sides being safe. Made in lengths of 4 and 6 inches and in cuts Nos. 0 and 2.

APPROXIMATE SIZES OF FINISHED FILES

	4″	6″
Thick	13/32″ x 5/64″	19/32″ x 7/64″
Thin	13/32″ x 3/64″	19/32″ x 5/64″

JOINT FILES WITH ROUND EDGE are made in the following B & S gauges, at regular prices:

4″	6″
9 to 26 gauge	10, 12, 14 and 16 gauge

JOINT FILES WITH SQUARE EDGE are made in the following B & S gauges, at regular prices:

4″	6″
16, 18 and 20 gauge	10, 12, 14 and 16 gauge

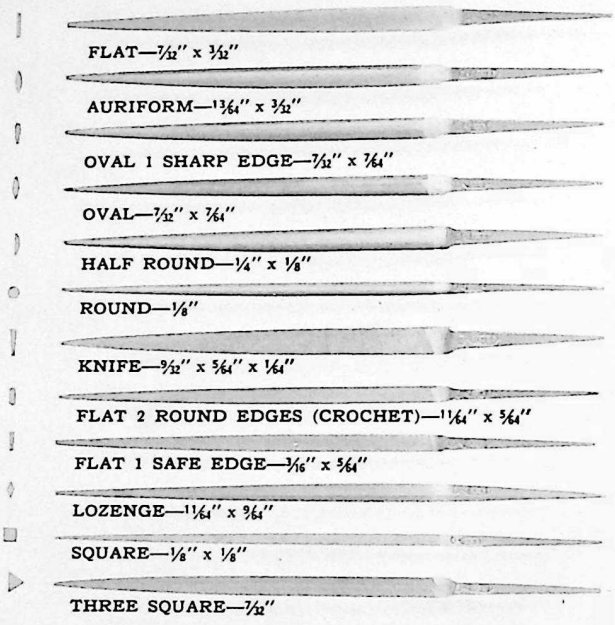
B & S GAUGES AND THEIR DECIMAL EQUIVALENTS

B & S No. 9—.114″
B & S No. 10—.102″
B & S No. 11—.091″
B & S No. 12—.081″
B & S No. 13—.072″
B & S No. 14—.064″
B & S No. 15—.057″
B & S No. 16—.051″
B & S No. 17—.045″
B & S No. 18—.040″
B & S No. 19—.036″
B & S No. 20—.032″
B & S No. 21—.028″
B & S No. 22—.025″
B & S No. 23—.022″
B & S No. 24—.020″
B & S No. 25—.018″
B & S No. 26—.016″

NICHOLSON TRADE MARK EXTRA X.F. FINE
SWISS PATTERN FILES

3½" DIE SINKERS FILES

NICHOLSON TRADE MARK EXTRA X.F. FINE
SWISS PATTERN FILES



FLAT—7/32" x 3/32"

AURIFORM—13/64" x 3/32"

OVAL 1 SHARP EDGE—7/32" x 7/64"

OVAL—7/32" x 7/64"

HALF ROUND—1/4" x 1/8"

ROUND—1/8"

KNIFE—9/32" x 5/64" x 1/64"

FLAT 2 ROUND EDGES (CROCHET)—11/64" x 5/64"

FLAT 1 SAFE EDGE—3/16" x 5/64"

LOZENGE—11/64" x 9/64"

SQUARE—1/8" x 1/8"

THREE SQUARE—7/32"

Die Sinkers Files are designed for die sinkers for dressing and finishing dies of all kinds.

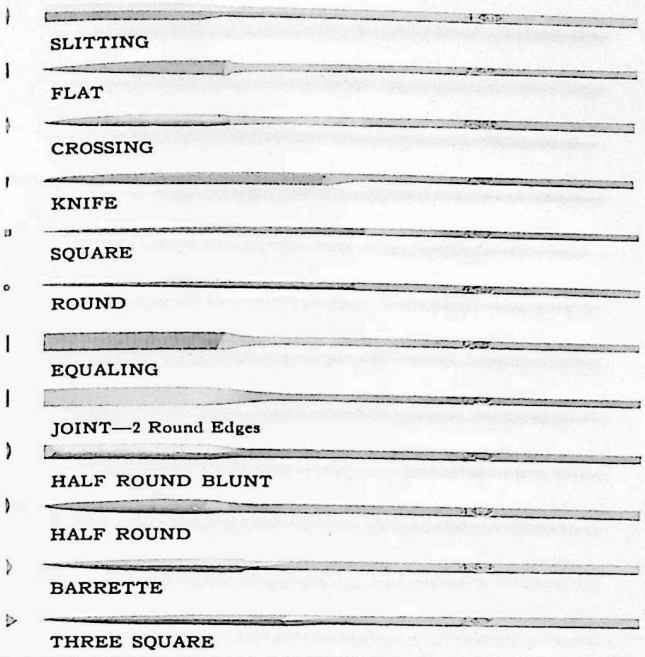
They are made in twelve shapes as illustrated, 3½ inches long, and in cuts Nos. 0, 1 and 2.

In assorted sets they are supplied in orange and blue plastic boxes.

NICHOLSON TRADE MARK EXTRA X.F. FINE SWISS PATTERN FILES

5½" SQUARE HANDLE NEEDLE FILES

NICHOLSON TRADE MARK EXTRA X.F. FINE SWISS PATTERN FILES

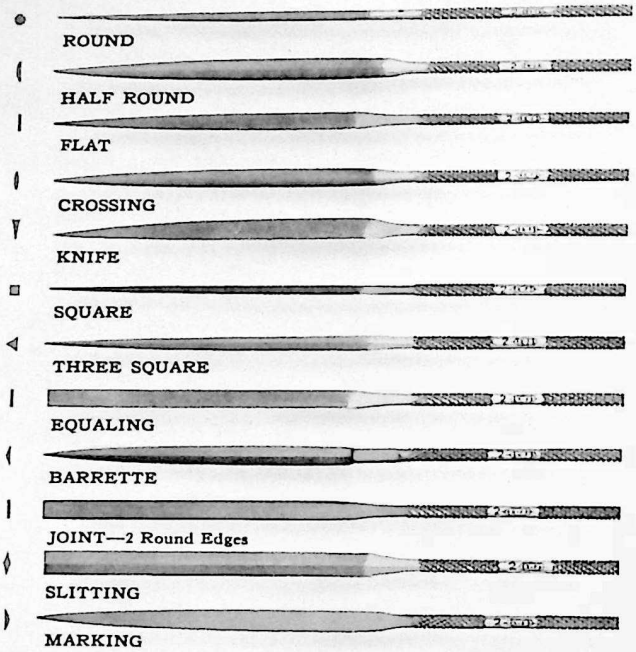


Square Handle Needle or Escapement Files are made especially for watch and clock makers.
They are made in twelve different shapes as illustrated, in one size only, 5½ inches over-all, and in cuts Nos. 0, 2, 4 and 6.

NICHOLSON TRADE MARK EXTRA X. F. FINE
SWISS PATTERN FILES

ROUND HANDLE NEEDLE FILES WITH KNURLED HANDLES

NICHOLSON TRADE MARK EXTRA X. F. FINE
SWISS PATTERN FILES



Round Handle Needle Files are used principally by jewelers, die makers, watchmakers and fine toolmakers. They are made in twelve different shapes as illustrated, in over-all lengths of 4", 5½" and 6¼" and in cuts Nos. 0, 2, 4 and 6. In 4" length Oval will be furnished instead of Crossing.

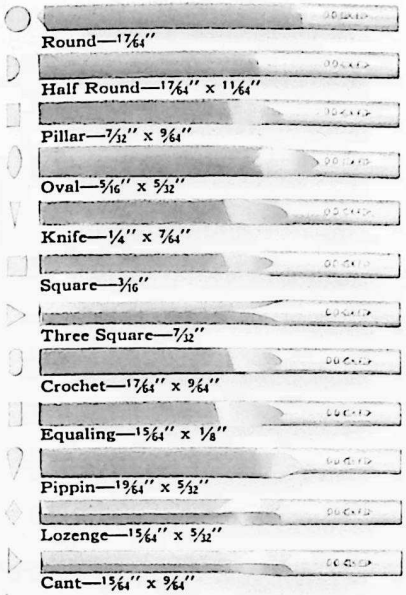
These files have Knurled Handles as illustrated and when purchased in assorted sets are supplied in orange and blue plastic boxes.

NICHOLSON TRADE X.F. MARK
EXTRA ← → FINE
SWISS PATTERN FILES

3¼" BENCH FILING MACHINE FILES

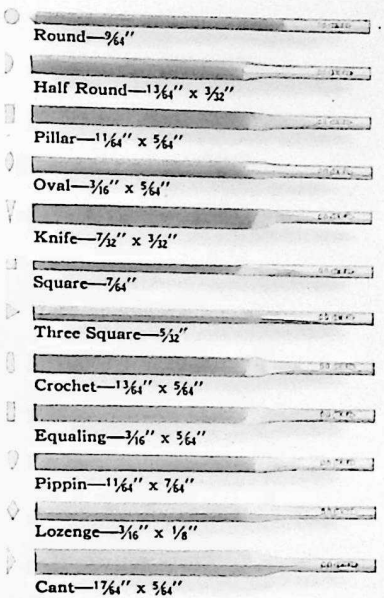
NICHOLSON TRADE X.F. MARK
EXTRA ← → FINE
SWISS PATTERN FILES

¼" ROUND SHANK



Round—17/64"
Half Round—17/64" x 11/64"
Pillar—7/32" x 9/64"
Oval—5/16" x 5/32"
Knife—¼" x 7/64"
Square—3/16"
Three Square—7/32"
Crochet—17/64" x 9/64"
Equaling—15/64" x ⅛"
Pippin—19/64" x 5/32"
Lozenge—15/64" x 5/32"
Cant—15/64" x 9/64"

⅛" ROUND SHANK



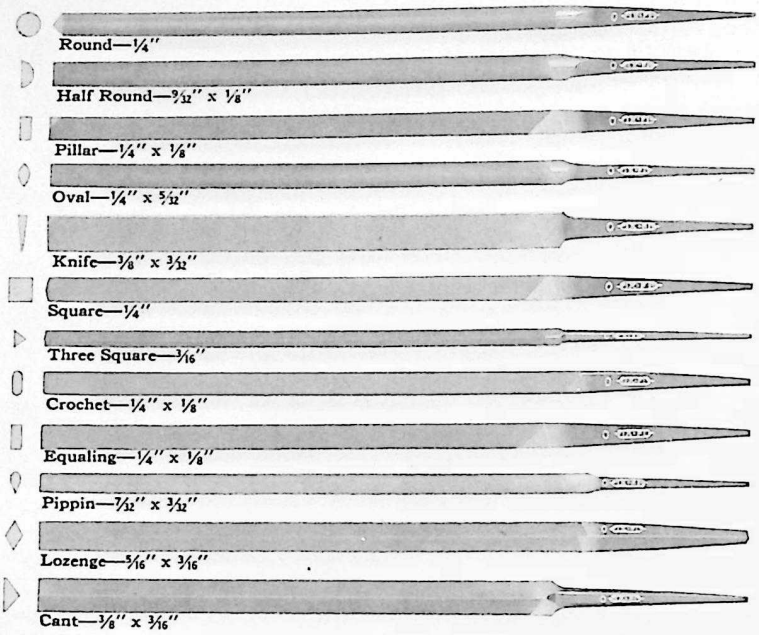
Round—9/64"
Half Round—13/64" x 3/32"
Pillar—11/64" x 5/64"
Oval—3/16" x 5/64"
Knife—7/32" x 3/32"
Square—7/64"
Three Square—5/32"
Crochet—13/64" x 5/64"
Equaling—3/16" x 5/64"
Pippin—11/64" x 7/64"
Lozenge—3/16" x ⅛"
Cant—17/64" x 5/64"

Bench Filing Machine Files are for use in machines for filing dies and patterns. Direction of cutting stroke is towards the shank. They are 3¼" over-all and have ¼" or ⅛" Round shanks. Made in twelve different shapes as illustrated. When purchased in assorted sets these files are supplied in orange and blue plastic boxes. Made in cuts Nos. 00, 0 and 2.

NICHOLSON TRADE MARK EXTRA X.F. FINE
SWISS PATTERN FILES

5" PARALLEL MACHINE FILES

NICHOLSON TRADE MARK EXTRA X.F. FINE
SWISS PATTERN FILES



Parallel Machine Files are made for use in filing machines.

Made in cuts Nos. 00, 0 and 2. Designed to cut in the regular manner with the cutting action taking place when the direction of the cutting stroke is towards the point and away from the tang.

NICHOLSON TRADE MARK X.F. EXTRA FINE
SWISS PATTERN FILES

8" PARALLEL MACHINE FILES

NICHOLSON TRADE MARK X.F. EXTRA FINE
SWISS PATTERN FILES

8" Parallel Machine Files are made for Filing Machines of the Oliver Type, made in twelve different shapes as illustrated, 8" over-all and in cuts Nos. 00, 0 and 2, direction of cutting stroke is towards the shank. Supplied in assortments or in any quantity of any shape and size. Prices on request.

Round—1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8"

Half Round—3/16", 1/4", 3/8", 1/2", 5/8", 3/4"

Pillar—3/16", 1/4", 3/8", 1/2", 5/8", 3/4"

Oval—11/32"

Knife—15/32"

Square—3/16", 1/4", 3/8", 1/2", 5/8"

Crochet—3/16", 1/4", 3/8", 1/2", 5/8"

Equaling—3/8"

Three Square—3/16", 1/4", 3/8", 1/2", 5/8"

Pippin—19/64"

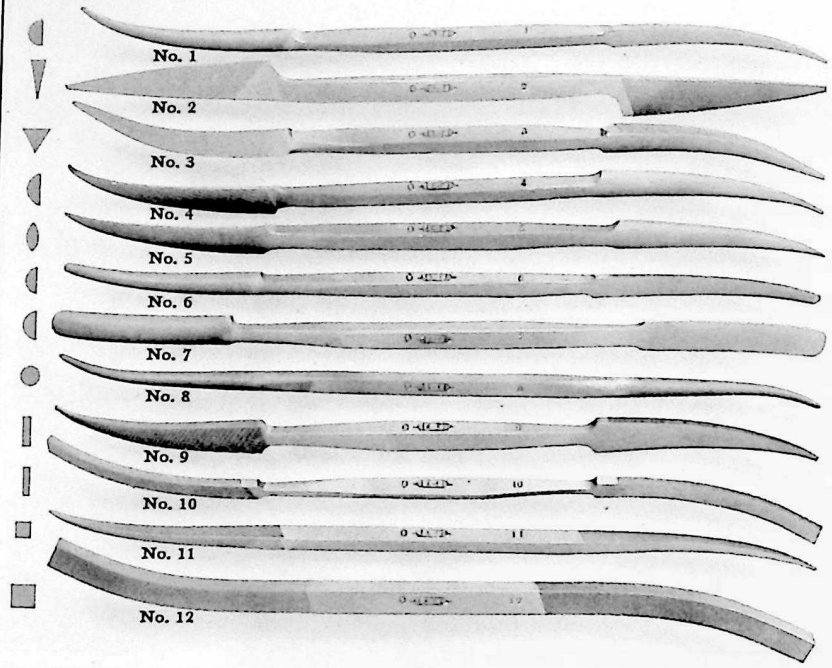
Lozenge—11/32"

Cant—11/32"

NICHOLSON TRADE MARK EXTRA X. F. FINE
SWISS PATTERN FILES

7½" SILVERSMITHS RIFFLERS

NICHOLSON TRADE MARK EXTRA X. F. FINE
SWISS PATTERN FILES

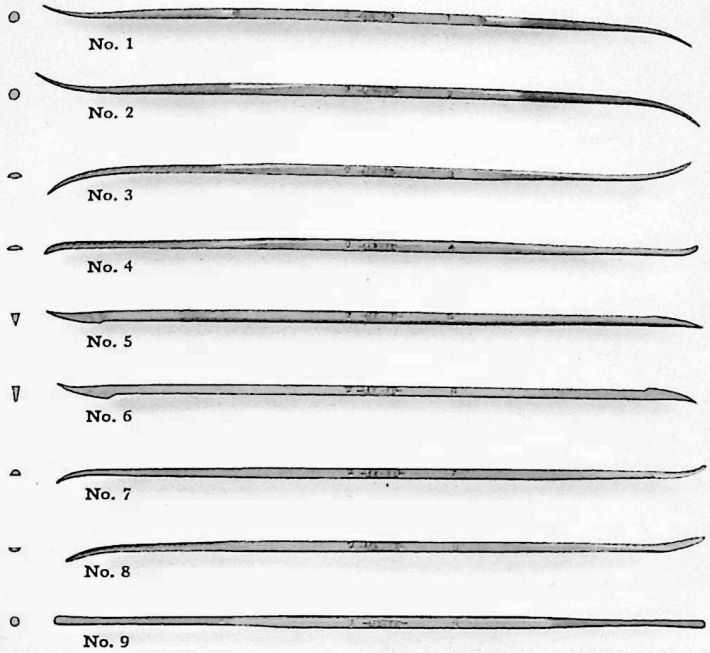


Silversmiths Rifflers are made in 7½" length only, in twelve shapes as illustrated, and in cuts Nos. 0 and 2. May be purchased in assortments or in any quantity of each shape.

NICHOLSON TRADE X.F. MARK
EXTRA ◂ ▸ FINE
SWISS PATTERN FILES

DIE SINKERS RIFFLERS

NICHOLSON TRADE X.F. MARK
EXTRA ◂ ▸ FINE
SWISS PATTERN FILES

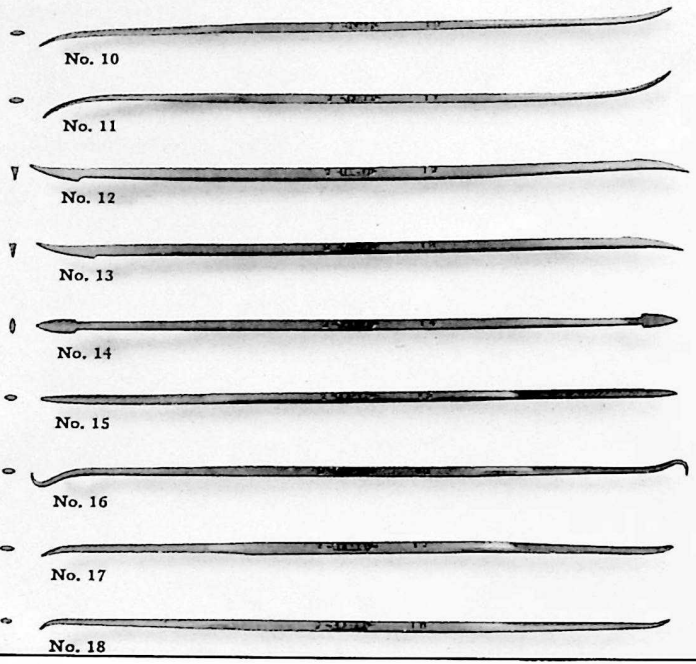


Die Sinkers Rifflers are made in 6½" length and in cuts Nos. 0, 2 and 4. These Rifflers are made in shapes Nos. 1 to 18 as illustrated on this and the following page and may be obtained in an assortment of one each of these eighteen shapes or in any quantity of each shape.

NICHOLSON TRADE MARK
EXTRA ← X. F. → FINE
SWISS PATTERN FILES

DIE SINKERS RIFFLERS

NICHOLSON TRADE MARK
EXTRA ← X. F. → FINE
SWISS PATTERN FILES



Die Sinkers Rifflers are made in 6½" length and in cuts Nos. 0, 2 and 4. These Rifflers are made in shapes Nos. 1 to 18 as illustrated on this and the preceding page and may be obtained in an assortment of one each of these eighteen shapes or in any quantity of each shape.

NICHOLSON TRADE MARK EXTRA X.F. FINE SWISS PATTERN FILES

3″ BROACH FILES

BROACH FILES NOS. 65 TO 40 STEEL WIRE GAUGE

NICHOLSON TRADE MARK EXTRA X.F. FINE SWISS PATTERN FILES

Gauge	Diam.
65	.035″
64	.036″
63	.037″
62	.038″
61	.039″
60	.040″
59	.041″
58	.042″
57	.043″
56	.0465″
55	.052″
54	.055″
53	.0595″
52	.0635″
51	.067″
50	.070″
49	.073″
48	.076″
47	.0785″
46	.081″
45	.082″
44	.086″
43	.089″
42	.0935″
41	.096″
40	.098″

Broach Files are made in round section, parallel throughout their lengths.

Made in one length only, 3 inches over-all and in one cut, which is approximately the same as the cut on a 3″ Round No. 0.

TUNGSTEN AND CONTACT POINT FILES

Nicholson Tungsten Point File

Nicholson Contact Point File

Nicholson Tungsten Point Files are for dressing distributor points that are tipped with Tungsten, Iridium or other similar metals. These Files are 5¼" over-all and are double cut. They have a chisel tip to conveniently enter slots or gaps and the extreme end of the handle is a thickness gauge for Spark Plugs. Supplied with Orange Handles.

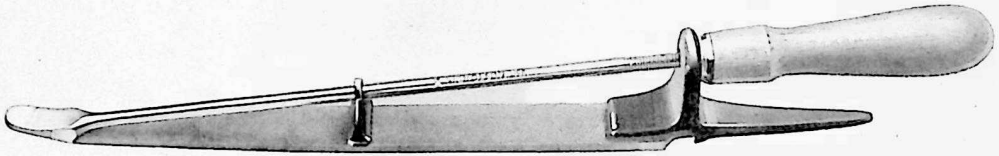
Nicholson Contact Point Files are for cleaning dirt and corrosion from contact points and spark gaps of magnetos, coils, electric bells, switches, etc. These files are 5¼" long and are also double cut.

NICHOLSON TOOLS AND SPECIALTIES

SURFACE FILE HOLDER

The Surface File Holder is designed to hold files for service in surface filing and has the added advantage of enabling the user to give convexity to the working face of the file.

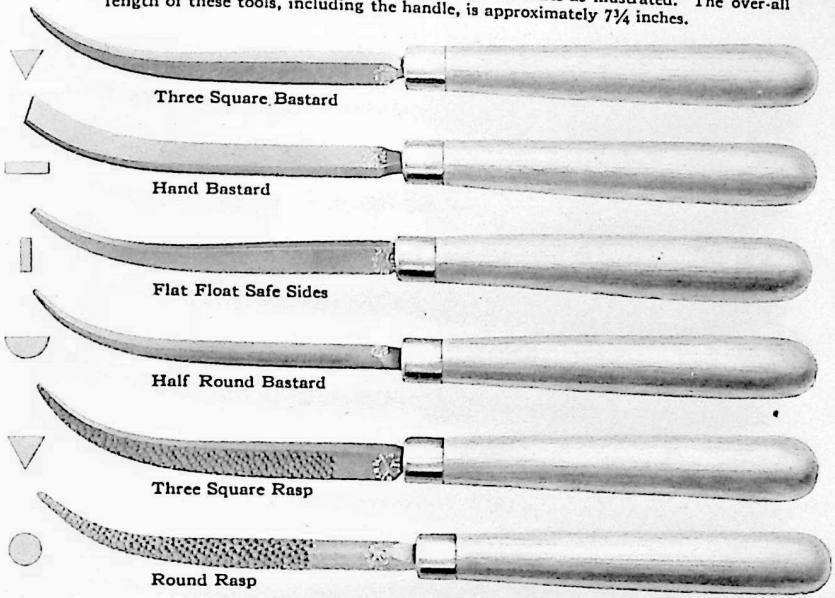
Made in two sizes, No. 4 for files 12 and 14 inches long, and No. 5 for files 14 and 16 inches long.



NICHOLSON TOOLS AND SPECIALTIES

BENT RIFFLERS HANDLED

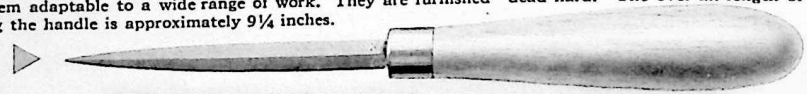
Bent Rifflers are used principally by Wood Carvers, Metal and Stone Workers for shaping and finishing in and about the many irregular places of Pattern Work.
They are made in six different shapes and styles of cuts as illustrated. The over-all length of these tools, including the handle, is approximately 7¼ inches.



NICHOLSON TOOLS AND SPECIALTIES

MACHINISTS SCRAPERS

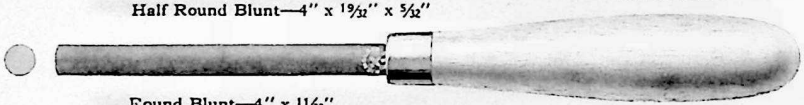
Machinists Scrapers are made in six shapes as illustrated which are sufficiently varied to make them adaptable to a wide range of work. They are furnished "dead hard." The over-all length of these tools including the handle is approximately 9¼ inches.



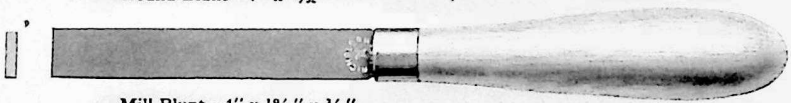
Three Square—4" x ⅜", 60° Angle

Cant Blunt—4" x 17/32", 110° Angle

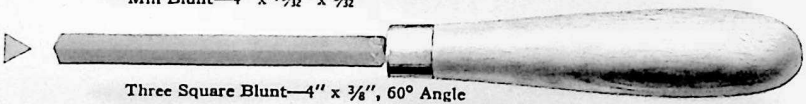
Half Round Blunt—4" x 19/32" x 5/32"



Round Blunt—4" x 11/32"



Mill Blunt—4" x 19/32" x 3/32"

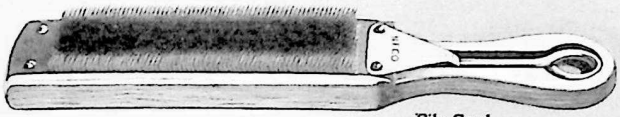


Three Square Blunt—4" x ⅜", 60° Angle

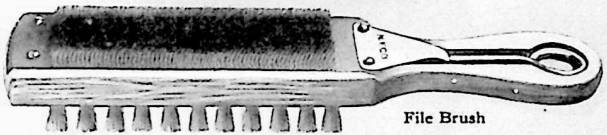
NICHOLSON TOOLS AND SPECIALTIES

FILE CLEANERS

These File Cleaners are made in two styles as illustrated. The File Card with Scorer for more general use and the File Brush (combining the Brush, Card and Scorer) for use especially on the finer cut files. The Scorer is made of soft iron and is used to remove the pins which fill up and clog the teeth of files causing scratches in the work if not removed. The over-all length of these Cleaners is 10 inches.



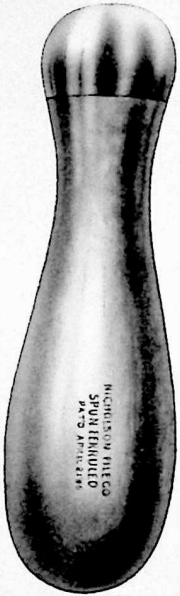
File Card



File Brush

NICHOLSON TOOLS AND SPECIALTIES

METAL FERRULED HANDLES



Metal Ferruled Handle No. 0

These handles have very strong Metal Ferrules. They are made from seasoned white Birch, and shaped to fit the hand comfortably.

SIZE No. 00 is for 16″ files but may be used on some 14″ files such as Hand and Half Round or other files having large tangs.

SIZE No. 0 is for 14″ files such as Flat, Mill, Round, Square, Three Square, Pillar and for 12″ Hand, Half Round and Pillar Files.

SIZE No. 1 will fit many of the 10″ and 12″ files such as 10″ Hand, Half Round, Pillar, 10″ and 12″ Warding, and 12″ Mill, Flat, Round, Square, Three Square and Knife Files.

SIZE No. 2 is used on a variety of 8″ to 10″ files including 8″ Hand, Half Round, 8″ and 10″ Taper and Three Square, 9″ and 10″ Flat and 10″ Mill, Round and Square Files.

SIZE No. 3 is for 6″ to 8″ files and will fit such files as 6″ and 7″ Hand, Half Round, Taper, Three Square, 6″ and 8″ Flat, 7″ and 8″ Mill, Pillar and Warding and 8″ Round and Square.

SIZE No. 4 is for files 6″ and smaller but is also used on some longer files such as 7″ Extra Slim, 7″ Round and Square and 8″ Double Extra Slim Files.

APPROXIMATE SIZES IN INCHES

No. 00	No. 0	No. 1	No. 2	No. 3	No. 4
5 7/8″ x 1 5/8″	5 1/2″ x 1 9/16″	5 1/8″ x 1 3/8″	4 7/8″ x 1 1/4″	4 1/2″ x 1 1/8″	4″ x 7/8″

NICHOLSON TOOLS AND SPECIALTIES

STRAIGHT FERRULED HANDLES

Straight Ferruled Handle No. 15

These handles are made of kiln dried white birch, stained and waxed. Brass ferrules inserted.

SIZE No. 11. For 3″ and 4″ Triangular, Round and Square in American Pattern. In X. F. Swiss Pattern 3″ Round, Square, Pippin and Metal Saw.

SIZE No. 12. For 4″ and 5″ Triangular, Round and Square in American Pattern. Also a number of 3″ and 4″ X. F. Swiss Pattern including Die Sinkers Files.

SIZE No. 13. For 4″ to 6″ Triangular and 5″ Round and Square. Also for 4″ and 5″ X. F. Swiss Pattern such as Pippin, Metal Saw, Round and Square.

SIZE No. 14. For 6″ Round and Square American Pattern. Also 4″, 5″ and 6″ X. F. Swiss Pattern such as Three Square, Round and Metal Saw.

SIZE No. 15. For 6″ Triangular Saw Files in American Pattern Type and 6″ Pippin in X. F. Swiss Pattern.

APPROXIMATE SIZE IN INCHES

No. 11	No. 12	No. 13	No. 14	No. 15
3 5/8″ x 7/16″	4 1/8″ x 17/32″	4 1/2″ x 39/64″	5″ x 45/64″	5 1/8″ x 47/64″

ALPHABETICAL INDEX, PACKING AND APPROXIMATE WEIGHTS

In Pounds and Ounces Per Dozen, In Regular Cardboard Boxes

Kinds	Page	Inches*	APPROXIMATE WEIGHTS PER DOZEN IN POUNDS AND OUNCES†														
			3"	4"	4½"	5"	5½"	6"	6¼"	6½"	7"	8"	9"	10"	12"	14"	16"	18"
Aluminum Type "A" Flat	29	8	..	....	....	.....	....	1–10	....	....	.....	3–10	....	7–	11– 9	18– 8	.....	.....
Aluminum Type "A" Half Round	29	8	..	....	....	.....	....	1– 4	....	....	.....	2–11	....	6– 3	9–14	16–	.....	.....
Auger Bit	33	1 doz.	..	....	....	.....	....	.....	....	....	– 9	....	....	....	.....	.....	.....	.....
Bandsaw Blunt	12	1 doz.	..	....	....	.....	....	2– 6	....	....	.....	4–12	....	....	.....	.....	.....	.....
Bandsaw Blunt Slim	12	1 doz.	..	....	....	.....	....	1– 2	....	....	.....	3– 1	....	....	.....	.....	.....	.....
Bandsaw, Skiptooth, Blunt	15	1 doz.	..	....	....	–11	....	–13	....	....	.....	....	....	....	.....	.....	.....	.....
Bandsaw, Skiptooth, Diamond Point	15	1 doz.	..	....	....	–10½	....	–12¾	....	....	.....	....	....	....	.....	.....	.....	.....
Bandsaw Taper 6" No. 63	12	1 doz.	..	....	....	.....	....	2–	....	....	.....	....	....	....	.....	.....	.....	.....
Bandsaw Taper 6" No. 64	12	1 doz.	..	....	....	.....	....	–15	....	....	.....	....	....	....	.....	.....	.....	.....
Bandsaw Taper 7" No. 73	12	1 doz.	..	....	....	.....	....	.....	....	....	2– 6	....	....	....	.....	.....	.....	.....
Bandsaw Taper 7" No. 74	12	1 doz.	..	....	....	.....	....	.....	....	....	1–11	....	....	....	.....	.....	.....	.....
Barrette (X.F.)	46	6	–3	–9	....	.....	....	1– 5	....	....	.....	2–14	....	....	.....	.....	.....	.....
Beaver Curved Tooth—Flat Tanged	38	½ doz.	..	....	....	.....	....	.....	....	....	.....	....	....	9–12	11– 8	13– 8	.....	.....
Beaver Curved Tooth—Half Rd. Tanged	38	½ doz.	..	....	....	.....	....	.....	....	....	.....	....	....	9– 4	11–	16– 4	.....	.....
Beaver Curved Tooth—Flexible	38	½ doz.	..	....	....	.....	....	.....	....	....	.....	....	....	5– 8	6– 4	8– 4	.....	.....
Bench Filing Machine (X.F.)	57	1 doz.	..	....	....	.....	....	.....	....	....	.....	....	....	....	.....	.....	.....	.....
Bent Rifflers	65	½ doz.	..	....	....	.....	....	.....	....	....	.....	....	....	....	.....	.....	.....	.....
Brass, Flat	30	8	..	....	....	.....	....	.....	....	....	.....	3–10	....	7–	11– 9	.....	.....	.....
Brass, Half Round	30	8	..	....	....	.....	....	.....	....	....	.....	2–11	....	6– 3	9– 8	.....	.....	.....
Broach (X.F.)	63	1 doz.	–1	....	....	.....	....	.....	....	....	.....	....	....	....	.....	.....	.....	.....
Brushes, File	67	½ doz.	..	....	....	.....	....	.....	....	....	.....	....	....	....	.....	.....	.....	.....
Cabinet Files	34	8	..	....	....	.....	....	.....	....	....	.....	2–13	....	4–13	8–	.....	.....	.....
Cabinet Rasps	34	8	..	....	....	.....	....	1– 6	....	....	.....	2–13	....	4–13	8– 6	13–11	.....	.....
Cabinet Rasps, Round	35	10	..	....	....	.....	....	–12	....	....	.....	1–12	....	3– 4	6–12	12–	.....	.....
Cantsaw	13	1 doz.	..	....	....	.....	....	1– 5	....	....	.....	2–13	....	5– 6	.....	.....	.....	.....
Cards, File	67	½ doz.	..	....	....	.....	....	.....	....	....	.....	....	....	....	.....	.....	.....	.....
Chain Saw—Flat	18	1 doz.	..	....	....	.....	....	.....	....	....	2–	2–14	....	....	.....	.....	.....	.....
Chain Saw—Flat, Narrow	18	1 doz.	..	....	....	.....	....	.....	....	....	.....	1– 8	....	....	.....	.....	.....	.....
Chain Saw—Round, No. 84	17	1 doz.	..	....	....	.....	....	.....	....	....	.....	1– 8	....	....	.....	.....	.....	.....
Chain Saw—Round, No. 85	17	1 doz.	..	....	....	.....	....	.....	....	....	.....	2– 5	....	....	.....	.....	.....	.....
Chain Saw—Round, No. 86	17	1 doz.	..	....	....	.....	....	.....	....	....	.....	3–	....	....	.....	.....	.....	.....
Chain Saw—Square	18	1 doz.	..	....	....	.....	....	–14	....	....	.....	....	....	....	.....	.....	.....	.....
Cleaners, File	67	½ doz.	..	....	....	.....	....	.....	....	....	.....	....	....	....	.....	.....	.....	.....
Contact Point	64	.....	..	....	....	.....	....	.....	....	....	.....	....	....	....	.....	.....	.....	.....
Corrugating (X.F.)	52	1 doz.	..	....	....	.....	....	2– 5	....	....	.....	....	....	....	.....	.....	.....	.....
Crochet (X.F.)	45	6	–4	– 7	....	.....	....	1– 1	....	....	.....	2– 7	....	4–	.....	.....	.....	.....
Crosscut, Great American	13	10	..	....	....	.....	....	.....	....	....	.....	3– 6	....	6–	.....	.....	.....	.....
Crosscut, Special	9	10	..	....	....	.....	....	1– 3	....	....	2–	2–14	....	5– 5	.....	.....	.....	.....
Crossing (X.F.)	49	6	–4	–10	....	.....	....	1–14	....	....	.....	4–	....	6– 2	.....	.....	.....	.....
Die Cast, Mill Bastard	32	10	..	....	....	.....	....	1– 3	....	....	.....	2–11	....	5– 3	9– 1	13– 2	.....	.....
Die Cast, Half Round Smooth	32	8	..	....	....	.....	....	1– 7	....	....	.....	3– 2	....	5–13	9–14	16–	.....	.....
Die Sinkers (X.F.)	54	1 doz.	..	....	....	.....	....	.....	....	....	.....	....	....	....	.....	.....	.....	.....
Die Sinkers Rifflers	61, 62	1 doz.	..	....	....	.....	....	.....	....	–6	.....	....	....	....	.....	.....	.....	.....
Doctor Blade	27	½ doz.	..	....	....	.....	....	.....	....	....	.....	....	....	....	.....	20–13	.....	.....
Double Ender, with handle	11	1 doz.	..	....	....	.....	....	–12	....	....	–12	1– 5	1–15	2– 6	.....	.....	.....	.....
Double Extra Slim Taper	11	1 doz.	..	– 3	–4	– 5	....	– 7	....	....	–11	1– 1	....	....	.....	.....	.....	.....

*Where there is only one method of packing, the actual number to a box is given. The figures in the "Inches" column indicate that files of that length and shorter are packed one dozen to a box. All over that length are packed six in a box.

†Figures before Dash (–) indicate pounds. Figures after Dash (–) indicate ounces.

ALPHABETICAL INDEX, PACKING AND APPROXIMATE WEIGHTS—Continued

In Pounds and Ounces Per Dozen, In Regular Cardboard Boxes

Kinds	Page	Inches*	APPROXIMATE WEIGHTS PER DOZEN IN POUNDS AND OUNCES†															
			3"	4"	4½"	5"	5½"	6"	6¼"	6½"	7"	8"	9"	10"	12"	14"	16"	18"
Equaling (X.F.)	44	6	–4	– 8	....	....	....	1– 5	....	....	....	3– 5	....	....	....	....	....	....
Extra Slim Taper	11	1 doz.	..	– 4	–5	– 7	– 9	–11	....	....	1– 2	2–	....	....	....	....	....	....
	19	8	..	– 9	....	....	....	1–10	....	....	....	....	....	....	....	....	....	....
Flat	28	8	..	....	....	....	....	....	....	....	....	3–10	....	7–	11– 9	18– 8	27– 1	36– 8
Foundry, Flat, Bastard	28	8	..	....	....	....	....	....	....	....	....	3–10	....	7–	11– 9	18– 8	....	....
Foundry, Half Round Bastard			..	....	....	....	....	....	....	....	....	3– 2	....	5–13	9–14	16–	....	....
	21	8	..	–10	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Half Round	49	6	–4	– 8	....	–12	....	1– 7	....	....	....	3– 2	....	5–13	9–14	16–	22–12	....
Half Round (X.F.)	19	8	..	....	....	....	....	1– 4	....	....	....	2–11	....	6– 3	9– 8	....	....	....
Hand	42	6	–7	–14	....	....	....	2– 4	....	....	....	4–11	....	8–14	14– 5	21– 5	31– 8	....
Hand (X.F.)	21	½ doz.	..	....	....	....	....	2– 5	....	....	....	4– 9	....	8–	14– 8	....	....	....
Hand Finishing Smooth	68	1 doz.	..	....	....	....	....	....	....	....	....	....	....	....	14– 5	21– 5	....	....
Handles, Metal Ferruled	69	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Handles, Straight Ferruled	12	1 doz.	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Handles, Straight Extra Slim	12	1 doz.	..	....	....	....	–11	–13½	....	....	1– 5½	....	....	....	....	....	....	....
Handsaw Blunt Slim	40	....	..	....	....	....	....	1– 2	....	....	....	....	....	....	....	....	....	....
Handsaw Blunt Slim	37	½ doz.	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Holders, Superior File	37	½ doz.	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Horse Rasp, Plain—Regular	37	½ doz.	..	....	....	....	....	....	....	....	....	....	....	....	13–12	17–10	26–11	....
Horse Rasp, Plain—Slim	37	½ doz.	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	25–15
Horse Rasp, Tanged—Regular	37	½ doz.	..	....	....	....	....	....	....	....	....	....	....	....	17– 6	26–	36–	....
Horse Rasp, Tanged—Thin			..	....	....	....	....	....	....	....	....	....	....	....	....	23– 4	....	....
	15	1 doz.	..	....	....	....	....	3–13	....	....	....	....	....	....	....	....	....	....
Improved Taper (6x⅝)	15	1 doz.	..	....	....	....	....	5– 6¼	....	....	....	....	....	....	....	....	....	....
Improved Taper (6x¼)			..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	53	1 doz.	..	– 5	....	....	....	1– 4	....	....	....	....	....	....	....	....	....	....
Joint (X.F.)			..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	26	1 doz.	..	– 7	....	....	....	1–	....	....	....	2– 3	....	4– 3	....	....	....	....
Knife	46	1 doz.	–4	– 7	....	–11	....	1– 2	....	....	....	2– 3	....	....	....	....	....	....
Knife (X.F.)			..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	35	8	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Last Makers Rasps and Files	29	½ doz.	..	....	....	....	....	....	....	....	....	....	....	7–	11– 9	18– 8	....	....
Lathe, Long Angle	31	8	..	....	....	....	....	....	....	....	....	3–10	....	7–	11– 9	....	....	....
Lead Float, Flat	31	8	..	....	....	....	....	....	....	....	....	3– 3	....	5–14	10–	....	....	....
Lead Float, Half Round			..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	27	8	..	....	....	....	....	....	....	....	....	3–10	....	7–	11– 9	18– 8	....	....
Machinist's G.P. (General Purpose)	66	½ doz.	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Machinists Scrapers	47	6	–3	– 7	....	–13	....	1– 4	....	....	....	3– 5	....	....	....	....	....	....
Metal Saw (X.F.)	8	10	..	– 6	....	....	....	1– 3	....	....	1–15	2–11	....	5– 4	9– 1	13– 2	20–10	....
Mill	9	10	..	....	....	....	....	1– 3	....	....	2–	2–14	....	5– 5	9– 5	....	....	....
Mill Blunt	9	10	..	....	....	....	....	1– 2	....	....	....	2–10	....	5– 4	8–15	....	....	....
Mill, 1 Round Edge	9	10	..	....	....	....	....	1– 2	....	....	....	2– 9	....	5–	8–12	....	....	....
Mill, 2 Round Edges			..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	56	1 doz.	..	– 2	....	....	– 4	....	–6	....	....	....	....	....	....	....	....	....
Needle, Round Handle (X.F.)	55	1 doz.	..	....	....	....	– 3	....	....	....	....	....	....	....	....	....	....	....
Needle, Square Handle (X.F.)			..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	58	1 doz.	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Parallel Machine, 5" (X.F.)	59	1 doz.	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Parallel Machine, 8" (X.F.)	35	8	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pattern Makers Rasps	25	10	..	....	....	....	....	1–13	....	....	....	3– 9	....	6–13	11– 9	....	....	....
Pillar	42	6	–5	–10	....	....	....	1–10	....	....	....	3– 8	....	6– 3	9–12	....	....	....
Pillar (X.F.)																		

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ALPHABETICAL INDEX, PACKING AND APPROXIMATE WEIGHTS—Continued

In Pounds and Ounces Per Dozen, In Regular Cardboard Boxes

Kinds	Page	Inches*	APPROXIMATE WEIGHTS PER DOZEN IN POUNDS AND OUNCES†															
			3"	4"	4½"	5"	5½"	6"	6¼"	6½"	7"	8"	9"	10"	12"	14"	16"	18"
Pillar Extra Narrow (X.F.)	43	1 doz.	-3	- 5	....	.....	....	-13	....	....	.....	1-15	....	3-11	6-	.....	.....	.....
Pillar Narrow (X.F.)	43	6	-4	- 8	....	.....	....	1- 4	....	....	.....	2-10	....	5- 3	8- 8	.....	.....	.....
Pillar Narrow Testing (X.F.)	51	½ doz.	..	...	....	.....	....	.....	....	....	.....	2-10	....	.....	.....	.....	.....	.....
Pillar Testing (X.F.)	51	1 doz.	..	...	....	.....	....	1-10	....	....	.....	.....	....	.....	.....	.....	.....	.....
Pippin (X.F.)	51	1 doz.	..	- 7	....	.....	....	1- 1	....	....	.....	1-13	....	.....	.....	.....	.....	.....
Pitsaw	13	1 doz.	..	...	....	.....	....	1- 6	....	....	.....	3-	....	.....	.....	.....	.....	.....
Planer Knife	9	1 doz.	..	...	....	.....	....	.....	....	....	.....	2-13	....	5- 1	.....	.....	.....	.....
Plastics, Files for	28	.....	..	...	....	.....	....	.....	....	....	.....	.....	....	.....	.....	.....	.....	.....
Pruning Saw	16	1 doz.	..	...	....	.....	....	2- 4	....	....	.....	.....	....	.....	.....	.....	.....	.....
Ring, Half Round (X.F.)	48	1 doz.	..	...	....	.....	....	1- 4	....	....	.....	.....	....	.....	.....	.....	.....	.....
Round	23	10	..	- 4	....	.....	....	-12	....	....	1- 3	1-12	....	3- 4	6-12	12-	19- 8	.....
Round (X.F.)	50	1 doz.	-1	- 4	....	- 6	....	-11	....	....	.....	1- 5	....	2-11	4-10	.....	.....	.....
Round Straight (X.F.)	50	1 doz.	..	- 4	....	- 8	....	-14	....	....	.....	1-12	....	.....	.....	.....	.....	.....
Screw Head (X.F.), Plain	52	1 doz.	-2	...	....	.....	....	.....	....	....	.....	.....	....	.....	.....	.....	.....	.....
Screw Head (X.F.), Tanged	52	1 doz.	-3	...	....	.....	....	.....	....	....	.....	.....	....	.....	.....	.....	.....	.....
Sector	14	1 doz.	..	...	....	.....	....	1- 4	....	....	.....	.....	....	.....	.....	.....	.....	.....
Shear Tooth, Flat	30	8	..	...	....	.....	....	1-10	....	....	.....	3-10	....	7-	11- 9	18- 8	.....	.....
Shear Tooth, Half Round	30	8	..	...	....	.....	....	1- 7	....	....	.....	3- 2	....	5-13	9-14	16-	.....	.....
Shoe Rasp, Half Round	35	½ doz.	..	...	....	.....	....	.....	....	....	.....	4- 1	5-10	6-14	.....	.....	.....	.....
Silversmiths Rifflers	60	1 doz.	..	...	....	.....	....	.....	....	....	.....	.....	....	.....	.....	.....	.....	.....
Slim Taper	11	10	..	- 5	-7	- 9	....	-15	....	....	1-11	2-11	....	4-14	9-	.....	.....	.....
Slitting (X.F.)	48	1 doz.	..	- 6	....	.....	....	-14	....	....	.....	.....	....	.....	.....	.....	.....	.....
Square	24	10	..	- 4	....	.....	....	-14	....	....	.....	1-15	....	3-13	8- 8	15-	25-	39-
Square (X.F.)	44	1 doz.	-2	- 4	....	.....	....	-10	....	....	.....	1- 8	....	3-	6- 3	.....	.....	.....
Square Blunt	24	10	..	...	....	.....	....	.....	....	....	.....	2- 3	....	4- 4	9-	15-12	.....	.....
Stainless Steel, Files for	28	.....	..	...	....	.....	....	.....	....	....	.....	.....	....	.....	.....	.....	.....	.....
Superior Milled Tooth—Flexible	39	10	..	...	....	.....	....	.....	....	....	.....	2- 5	....	4- 8	6- 7	8- 9	.....	.....
Superior Milled Tooth—Flat	39	8	..	...	....	.....	....	.....	....	....	.....	2-12	....	5-14	9- 9	17-	.....	.....
Superior Milled Tooth—Half Round	39	8	..	...	....	.....	....	.....	....	....	.....	3- 8	....	6- 5	11- 5	17- 9	.....	.....
Super-Shear	38	8	..	...	....	.....	....	.....	....	....	.....	2-12	....	5-14	9- 9	17-	.....	.....
Surface File Holders	64	1 only	..	...	....	.....	....	.....	....	....	.....	.....	....	.....	.....	.....	.....	.....
Taper, Regular	11	1 doz.	..	...	....	.....	....	2-	....	....	3- 2	4- 4	....	7- 8	.....	.....	.....	.....
Taper, Type B	16	.....	..	...	....	.....	....	.....	....	....	.....	.....	....	.....	.....	.....	.....	.....
Three Square	25	10	..	...	....	.....	....	1-13	....	....	.....	4- 4	....	7- 8	11- 6	.....	.....	.....
Three Square (X.F.)	47	6	-3	- 6	....	-11	....	1- 1	....	....	.....	2-10	....	4-11	.....	.....	.....	.....
Tungsten Point	64	.....	..	...	....	.....	....	.....	....	....	.....	.....	....	.....	.....	.....	.....	.....
Warding	26	1 doz.	..	- 5	....	.....	....	-12	....	....	.....	1- 9	....	2-14	.....	.....	.....	.....
Warding (X.F.)	45	1 doz.	-3	- 5	....	.....	....	-13	....	....	.....	1-10	....	2-15	.....	.....	.....	.....
Websaw	14	1 doz.	..	...	....	2- 3	2- 7	3-	....	....	.....	.....	....	.....	.....	.....	.....	.....
Websaw Round Gulleting	14	1 doz.	..	...	....	.....	....	1-	....	....	.....	.....	....	.....	.....	.....	.....	.....
Weed's Special	12	1 doz.	..	...	....	-12¼	-13	1- 2¼	....	....	.....	.....	....	.....	.....	.....	.....	.....
Western Cut	16	.....	..	...	....	.....	....	.....	....	....	.....	.....	....	.....	.....	.....	.....	.....
Wood File, Flat	33	8	..	...	....	.....	....	.....	....	....	.....	3-10	....	7-	11- 9	18- 8	.....	.....
Wood File, Half Round	33	8	..	...	....	.....	....	.....	....	....	.....	3- 3	....	5-14	9-14	16-	.....	.....
Wood Rasp, Flat	36	8	..	...	....	.....	....	.....	....	....	.....	3- 9	....	7-	11-10	18-11	26- 8	.....
Wood Rasp, Half Round	36	8	..	...	....	.....	....	1- 8	....	....	.....	3- 4	....	6-	10- 6	16-12	24- 2	.....
Wood Rasp, Round	35	10	..	...	....	.....	....	-12	....	....	.....	1-12	....	3- 4	6-12	12-	.....	.....

*Where there is only one method of packing, the actual number to a box is given. The figures in the "Inches" column indicate that files of that length and shorter are packed one dozen to a box. All over that length are packed six in a box.

†Figures before Dash (-) indicate pounds. Figures after Dash (-) indicate ounces.

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